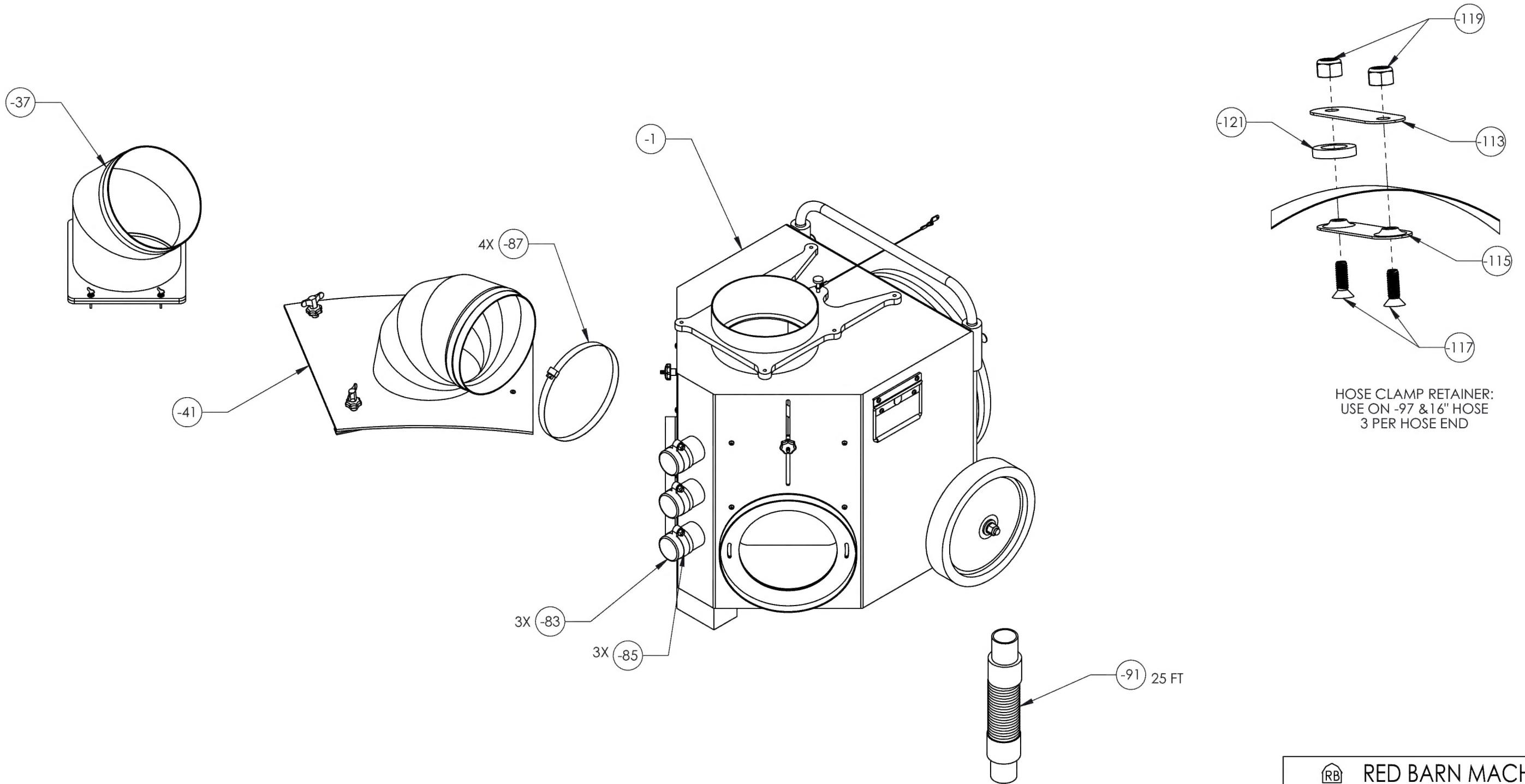


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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		SHT 2 REMOVE ITEM -89 16" HOSE CLAMP, ITEM -113 & -115 QTY FROM 18 TO 12, -117 THRU -121 FROM 36 TO 24, ITEM -75 & -77 FROM QTY 26 TO 16, ADDED ITEMS -125 & -127. SHT 5 HOLE FROM 16.00 TO 15.30, 10 HOLES @ Ø.22 TO 8X Ø.28. SHT 12 OD FROM 16.00 TO 15.50. SHT 13 CHANGED FROM 10 HOLES @ Ø.22 TO 8 @ Ø.28, ID TO 15.30 FROM 15.84		2/18/2011	JAG	



RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED D Weil
FRACTIONS ± 1/32 ANGLES ± .5°	HEAT TREAT FINISH
SPEC	USED ON MODEL
FIRE SCOUT MQ-8B	
SCALE 1:8	DATE 2/4/2011
SHEET 1 OF 32	

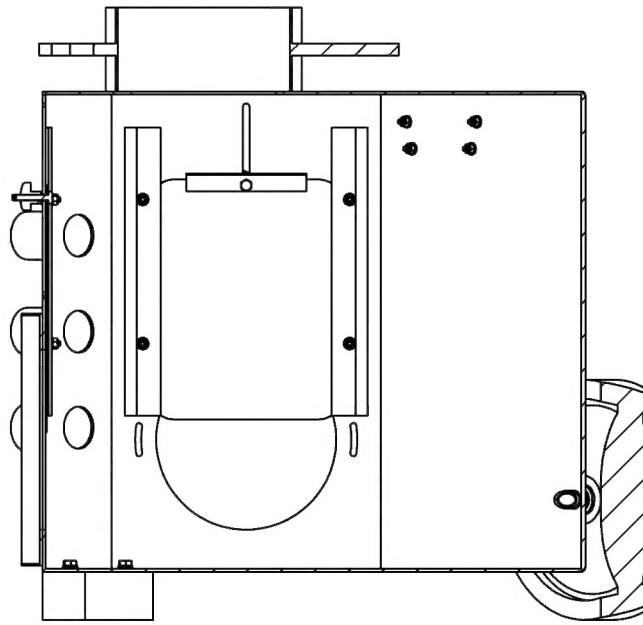
ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.					
				X		-1	1		SPLITTER BOX ASSY			3
				X	1	-3			SPLITTER BOX WELDMENT	ALUMINUM		4
				1		-5			BOX	ALUMINUM	1/8 TH	5
				2		-7			ADAPTER RING	ALUMINUM	.08 X 1 X 33-1/8	6
				2		-9			ADAPTER FLANGE	ALUMINUM	1/8 X 10-1/2 X 10-1/2	7
				3		-11			SMALL DUCT TUBE	ALUMINUM	2 X 1/8 WALL X 3-1/8	8
				1		-13			AXLE TUBE	ALUMINUM	Ø3/4 X .083 WALL X 20-1/2	9
				2		-15			HANDLE TUBE	ALUMINUM	Ø1-1/2 X 4-1/8	10
				1	B/O	-17			TOP GATE VENT	ALUMINUM	MCMASTER-CARR #1788K16	4
				X	1	-19			SUPPLY DUCT WELDMENT			11
				1		-21			DUCT RING	ALUMINUM	.08 X 4 X 50-1/2	12
				1		-23			DUCT FLANGE	ALUMINUM	1/8 x 19-1/8 x 19-18	13
				1		-25			HANDLE	304 S.S.	Ø3/4 X 16 GA X 61	14
				1		-27			AXLE SHAFT	304 S.S.	Ø1/2 X 26-1/2	15
				8		-29			SIDE GATE BRACKET	ALUMINUM	1/8 X 1 X 12	16
				X	2	-31			SIDE GATE WELDMENT			17
				1		-33			SIDE GATE	304 S.S.	16 GA 8.0 X 11.0	18
				1		-35			LOCK STUD	S.S.	1/4-20 X 1-1/2 MCMaster-Carr #93190A546 (NEEDS MODIFIED)	19
				X		-37	1		AVIONICS DUCT ASSY			20
				1		-39			AVIONICS DUCT	ALUMINUM		21
				X		-41	1		ENGINE DUCT ASSY			22
				1		-43			ENGINE DUCT	ALUMINUM		23
				1		-45			RETAINER	ALUMINUM	1/2 X 2 X 7-3/8	24
				X	2	-47			LATCH WELDMENT			25
				1		-49			LATCH PLATE	304 S.S.	1/4 X 3/4 X 2-3/8	26
				1	B/O	-51			STUD	S.S.	1/4-20 X 3 MCMaster-Carr #90575A559	25
				2	B/O	-53			SPRING PLUNGER	STEEL	1/4-20 MCMaster-Carr #2375A312	3
				2	B/O	-55			RUBBER WHEEL	STEEL/RUBBER	10 WHEEL MCMaster-Carr #2331T23	3
				2	B/O	-57			LOCK NUT	S.S.	1/2-13 MCMaster-Carr #90715A165	3
				4	B/O	-59			FLAT WASHER	S.S.	Ø1/2 ID X 7/8 OD MCMaster-Carr #98017A210	3
				1	B/O	-61			FOOT PAD	NEOPRENE	4 X 2-1/2 X 2 MCMaster-Carr #9306K34	3
				2	B/O	-63			SIDE HANDLE	S.S.	RIED #NSH-160	3
				2	B/O	-65			BOLT	S.S.	5/16-18 X 7/8 MCMaster-Carr #93190A582	3
				2	B/O	-67			FLAT WASHER	S.S.	Ø5/8 MCMaster-Carr #91525A229	3
				2	B/O	-69			LOCK WASHER	S.S.	5/16 MCMaster-Carr #92147A030	3
				2	B/O	-71			KNOB	S.S.	MCMaster-Carr #8558K1	3/22
				2	B/O	-73			SPRING PIN	S.S.	Ø1/8 X 1/4 MCMaster-Carr #92373A173	3
				16	B/O	-75	4		LOCK NUT	S.S.	10-32 MCMaster-Carr #91831A411	3
				2	B/O	-77	4		MACHINE SCREW	S.S.	10-32 X 3/4 MCMaster-Carr #91772A831	3/22
				26	B/O	-79	4		FLAT WASHER	S.S.	10-32 MCMaster-Carr #91525A117	3
				2	B/O	-81			ARM KNOB	S.S.	MCMaster-Carr #4276T44	3
				B/O	-83	3			CAP	VINYL	2 OD X 1-1/2 MCMaster-Carr #9753K94	1
				B/O	-85	3			2 HOSE CLAMP	S.S.	MCMaster-Carr #5362K21	1
				B/O	-87	4			8 HOSE CLAMP	S.S.	MCMaster-Carr #5215K15	1
				B/O	-91	1			SMALL DUCT HOSE	POLYETHYLENE	2-1/2 OD HOSE MCMaster-Carr #9020T76 GREY	
				4	B/O	-93			QUICK RELEASE FASTNER	S.S.	MILSPEC 2600-20SW	20
				4	B/O	-95			STUD RETAINER	S.S.	MILSPEC #2600-LW	20
				B/O	-97	2			8 DUCT HOSE	PLASTIC	U.S. AIRMOTIVE USAIR830AHIMW-EP7	NS
				B/O	-99	2			8 ADAPTER	PLASTIC	U.S. AIRMOTIVE IA8986	NS
				1		-101			AVIONICS DUCT FOAM	CLOSED CELL FOAM	1/4 X 9.0 X 10-1/2	27
				1		-103			ENGINE DUCT FOAM	CLOSED CELL FOAM	1/4 X 17-1/2 X 19-1/4	28
				1		-105			THUMB SCREW	S.S.	1/4-20 MCMaster-Carr #91746A414(NEEDS MODIFIED)	30
				1	B/O	-107			LANYARD	S.S.	8" W TAB MCMaster-Carr #30345T33	NS
				2	B/O	-109			FLAT WASHER	S.S.	Ø1/2 OD X 17/64 ID MCMaster-Carr #91525A117	NS
				1		-111			STENCIL	STENCIL STOCK	4-1/2 X 5-1/2 STENCIL	NS
						-113	12		HOSE RETAINER	S.S.	.03 X 3/4 X 2-1/8	31
						-115	12		HOSE RETAINER, BOTTOM	S.S.	.03 X 3/4 X 2-1/8	32
					B/O	-117	24		FLATHEAD SCREW	S.S.	8-32 X 1/2 MCMaster-Carr #91771A194	1
					B/O	-119	24		LOCKNUT	S.S.	8-32 MCMaster-Carr #91831A009	1
					B/O	-121	24		STANDOFF	S.S.	1/8 X Ø5/8 MCMaster-Carr #98126A834	1
					B/O	-123	3		LANYARD	S.S.	12" W TAB MCMaster-Carr #30345T38	NS
				8	B/O	-125			MACHINE SCREW	S.S.	1/4-20 X 3/4 MCMaster-Carr #91772A540	
				8	B/O	-127			LOCK NUT	S.S.	1/4-20 MCMaster-Carr #91831A029	
ASSY QTY												
-47	-41	-37	-31	-19	-3	-1						

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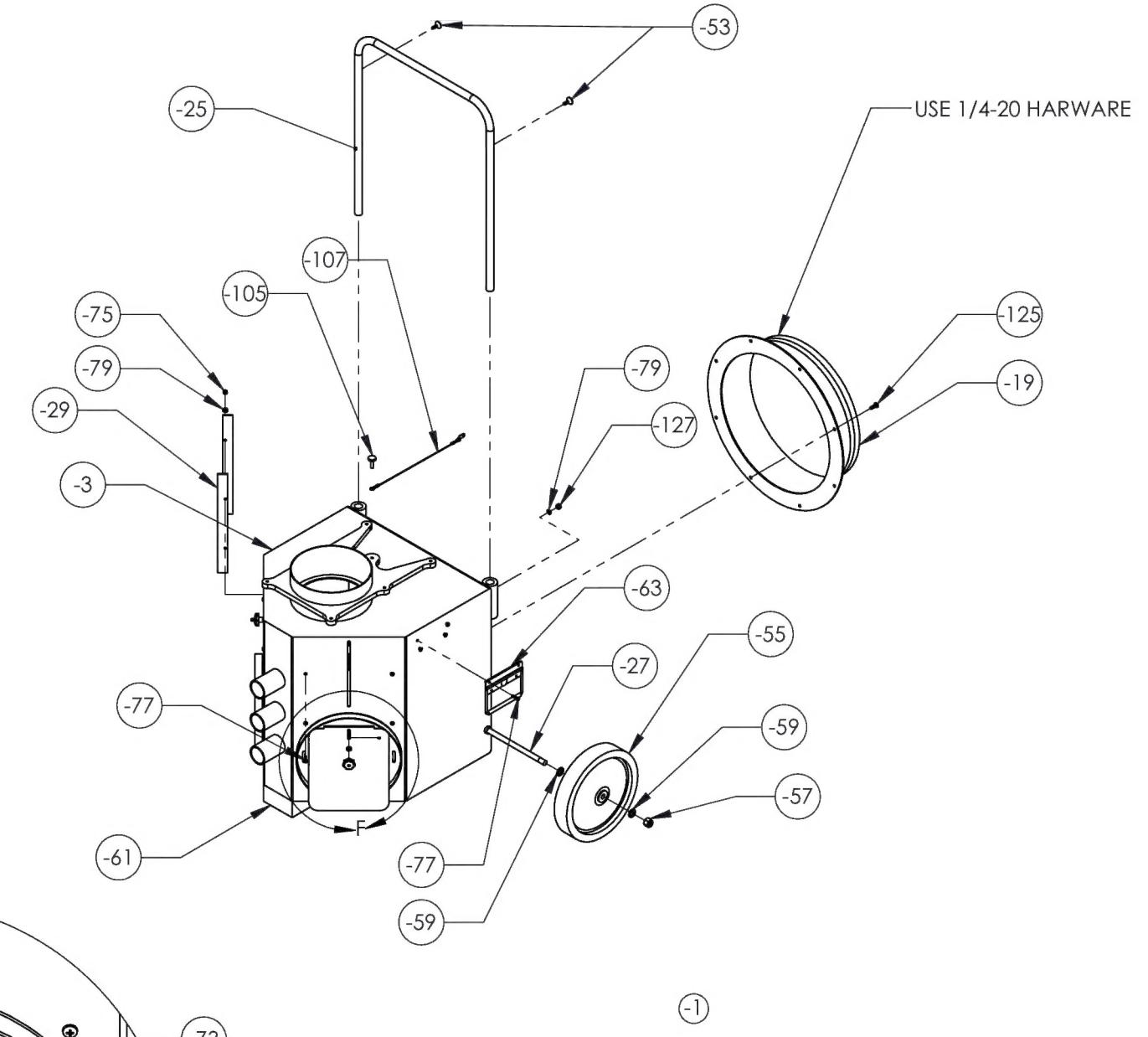
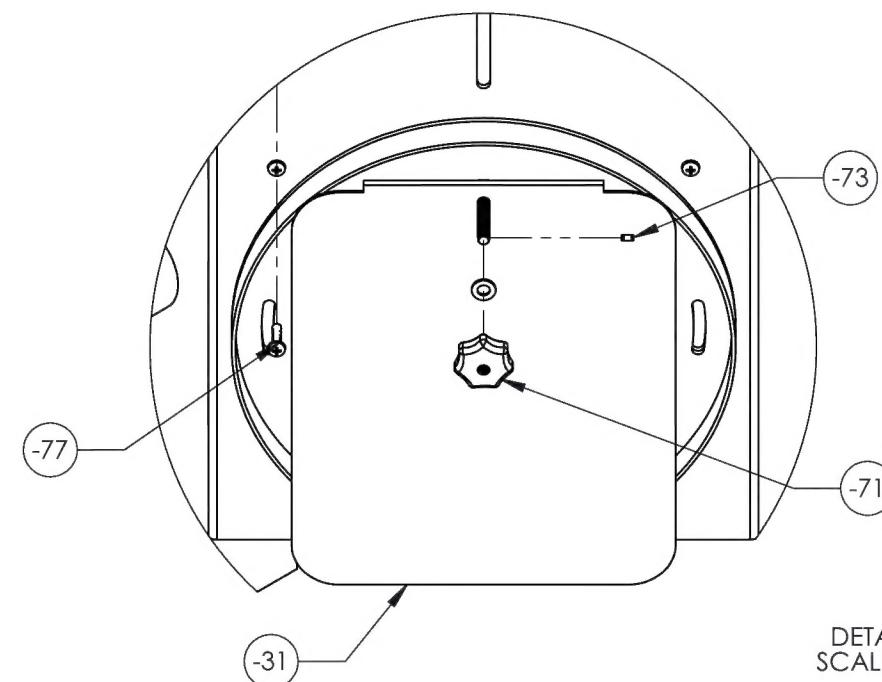
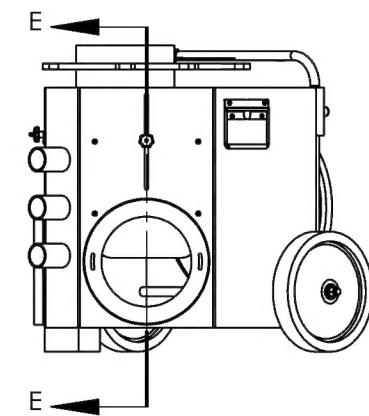
RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 HEAT TREAT FINISH	
XX ± .01 ANGLES ± .5° SPEC	
X ± .1 USED ON MODEL	
.015 x 45° PR.015 R FIRE SCOUT MQ-8B	
SCALE	1:8
DATE	2/4/2011
SHEET 2 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
1		CHANGED FROM 10-32 TO 1/4-20 HARDWARE FOR -19		2/18/2011	JAG



SECTION E-E
TYP SIDE GATE ASSY, 2 PER ASSY

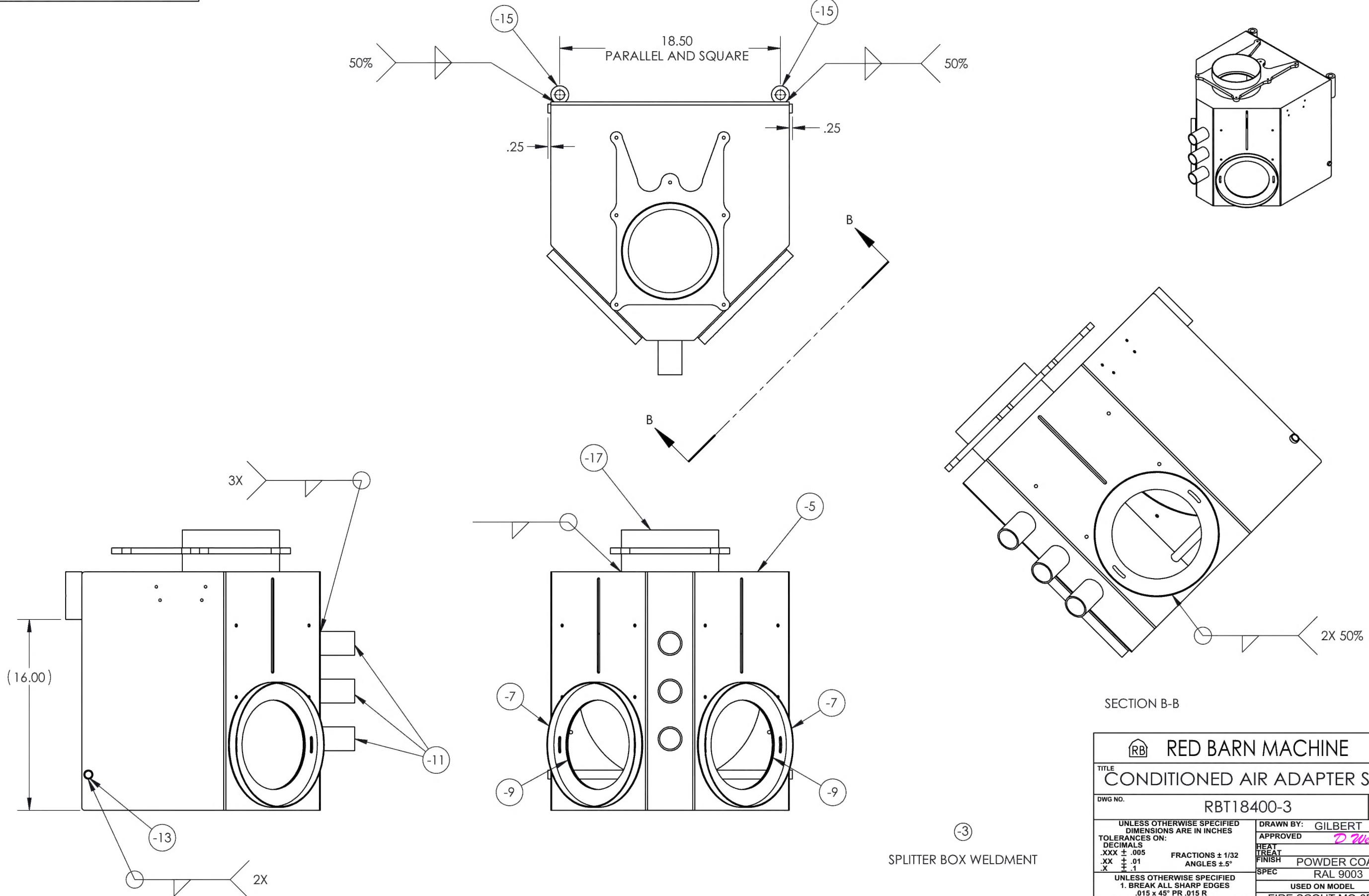


DETAIL F
SCALE 1 : 4

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	REV 1
RBT18400-1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:8	DATE 2/4/2011
SHEET 3 OF 32	

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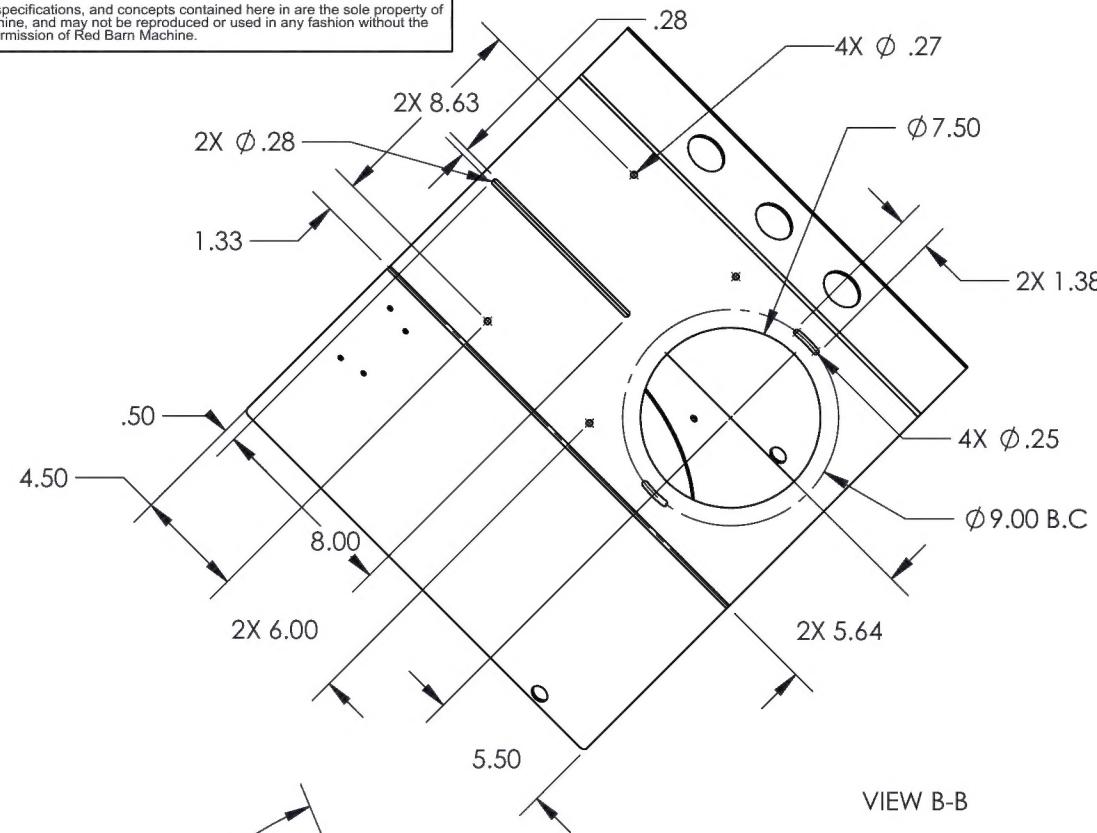
REV	REVISIONS	DESCRIPTION	DATE	INITIAL APPROVED
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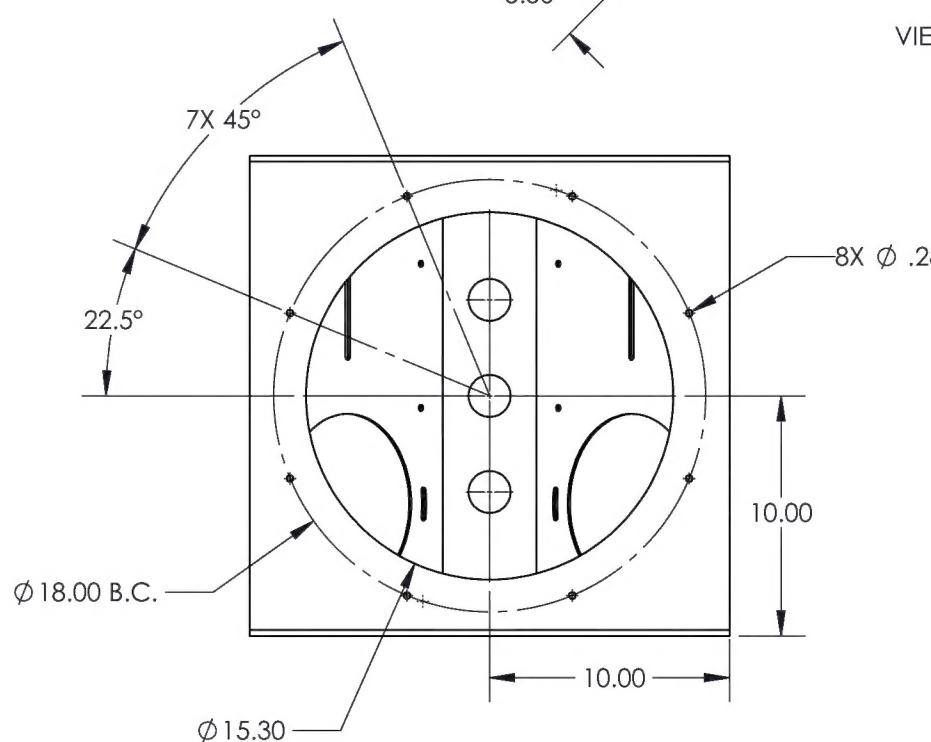
RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-3
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± .5°	
X ± .1	
HEAT TREAT FINISH POWDER COAT	
SPEC RAL 9003	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:8
DATE	2/4/2011
SHEET 4 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		HOLE FROM 16.00 TO 15.30, 10 HOLES @ Ø.22 TO 8X Ø.28		2/4/2011	JAG	



VIEW B-B

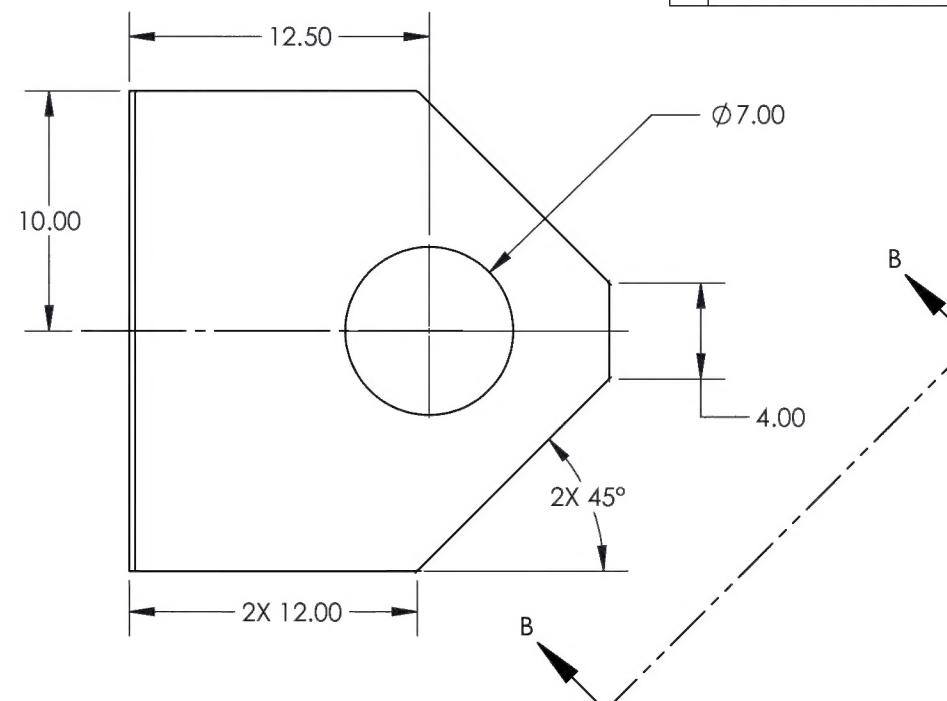
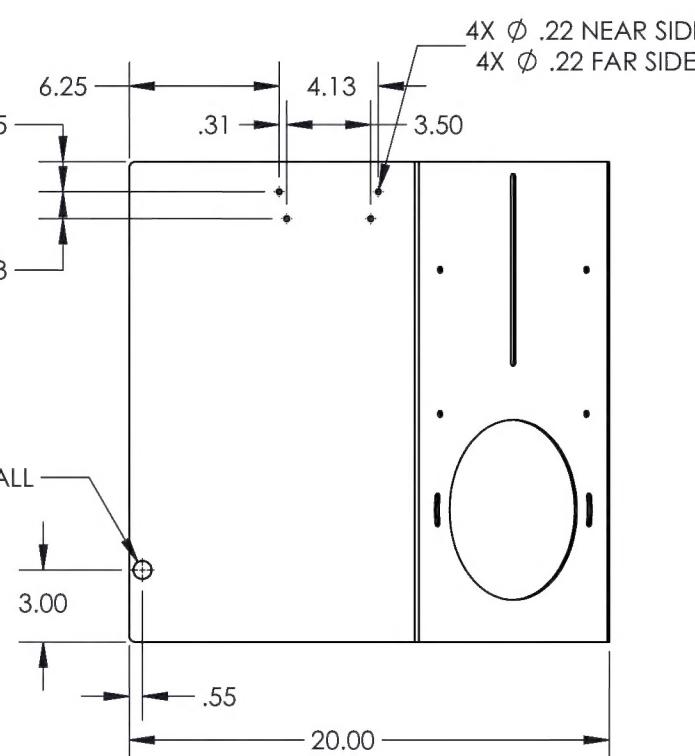
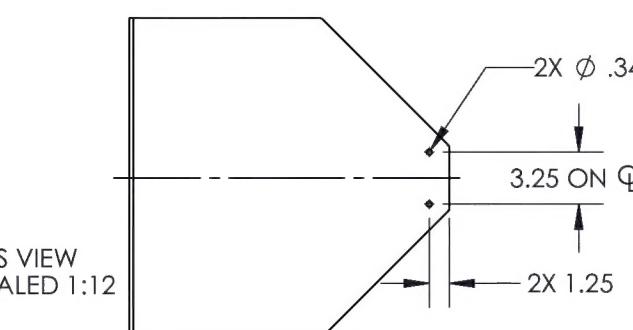


(-5)
BOX

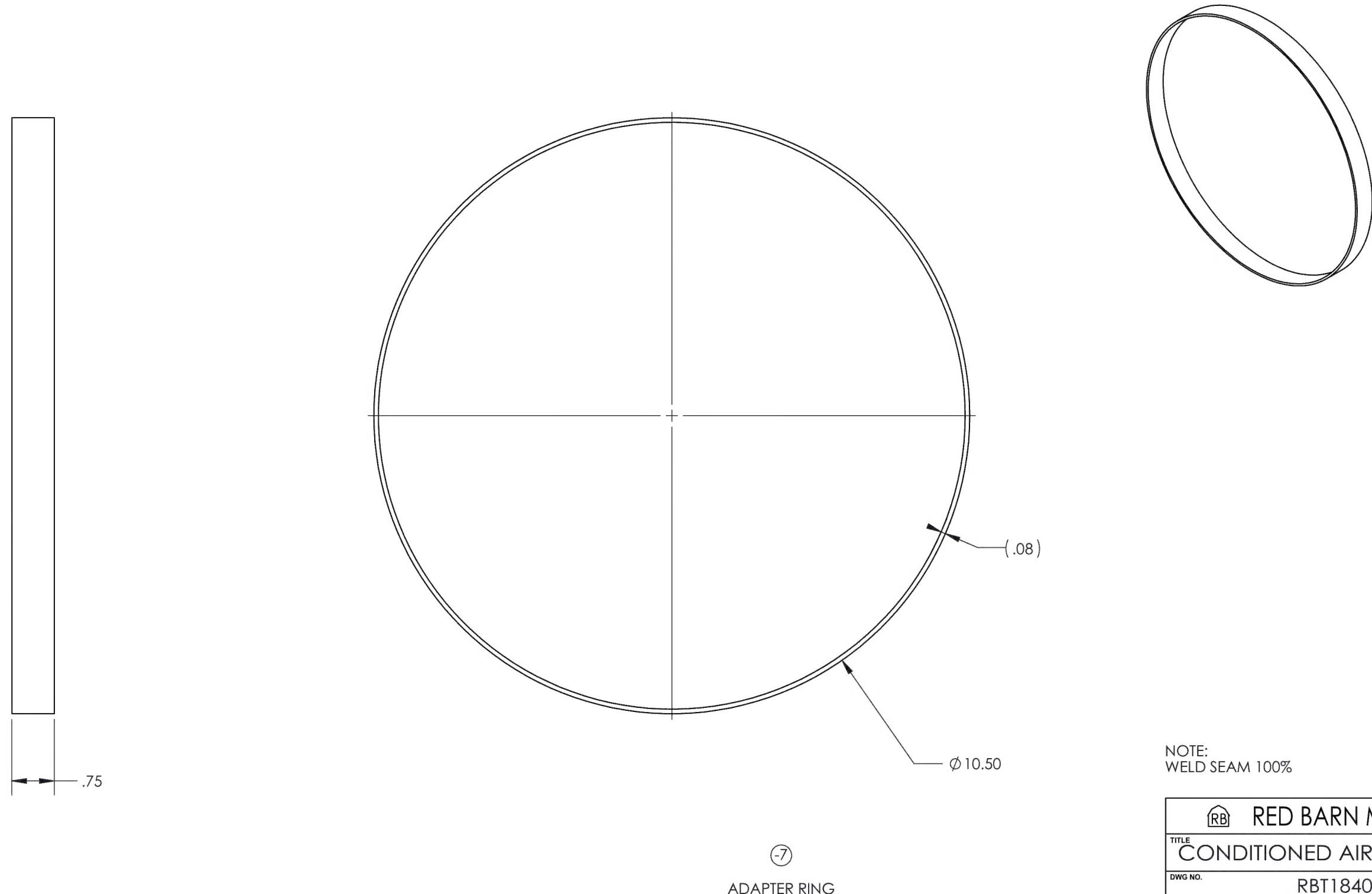
NOTES:

1. WELD ALL SEAMS 100%.
2. HOLE & SLOT FEATURES ARE THRU 1 WALL ONLY UNLESS OTHERWISE SPECIFIED.
3. WALL THICKNESS .125
4. HIDDEN LINES REMOVED FOR CLARITY.

THIS VIEW
SCALED 1:12



RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-5
DRAWN BY: GILBERT	
APPROVED D Weil	
REV 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± .5°	
X ± .1	
HEAT TREAT FINISH SPEC USED ON MODEL	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:8
DATE	2/4/2011
SHEET 5 OF 32	



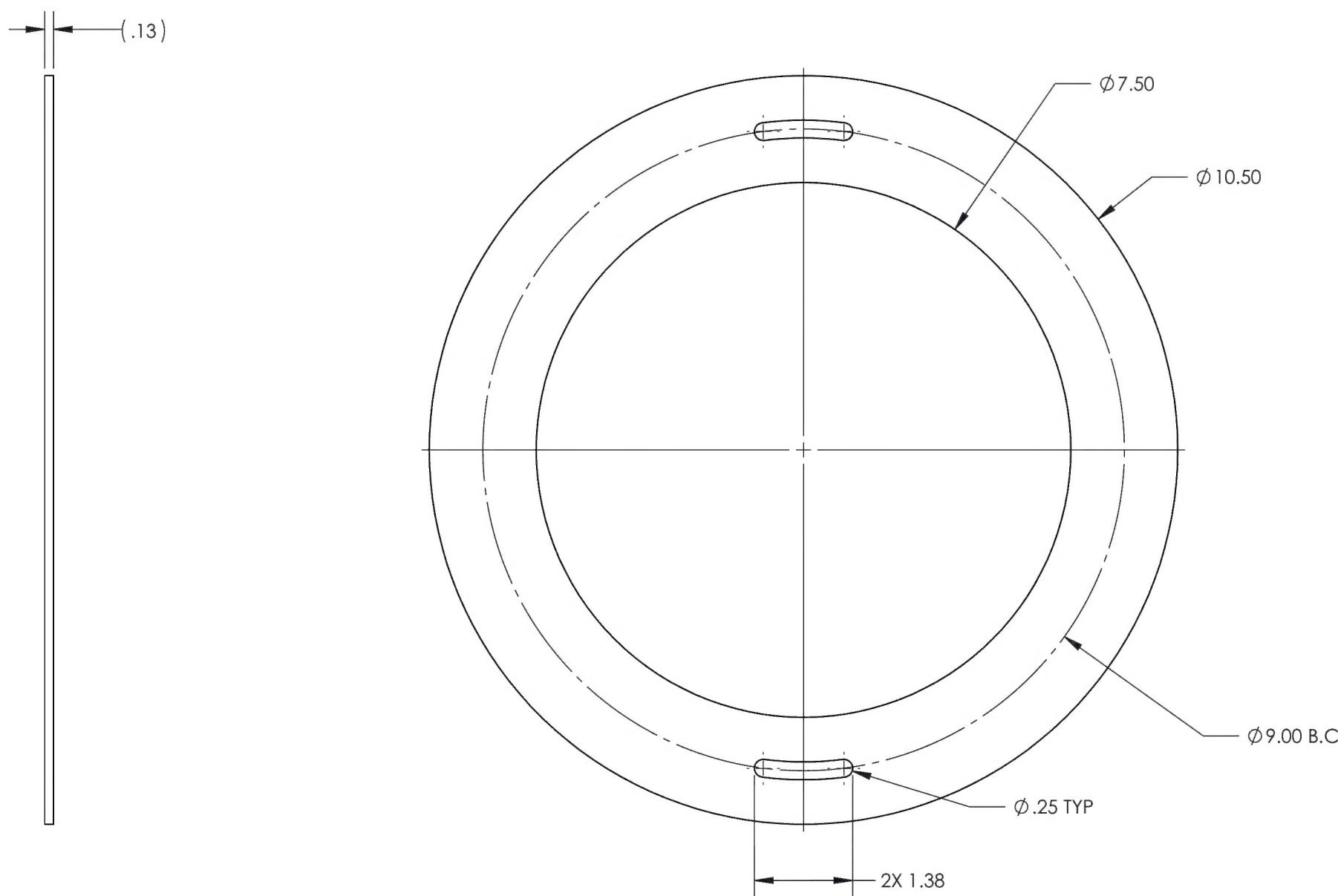
NOTE:
WELD SEAM 100%

(-7)
ADAPTER RING

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-7
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 6 OF 32	

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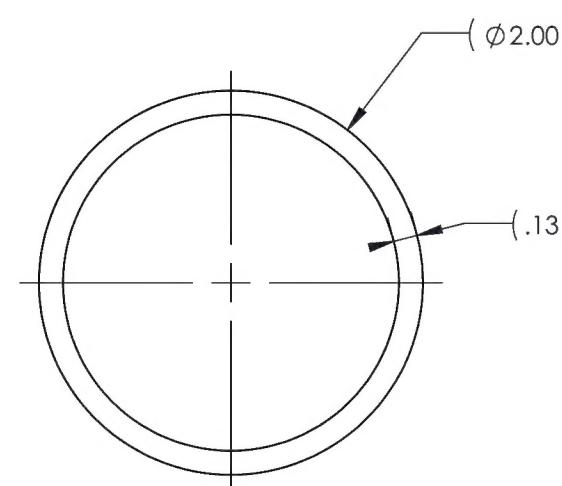
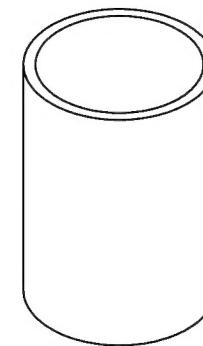
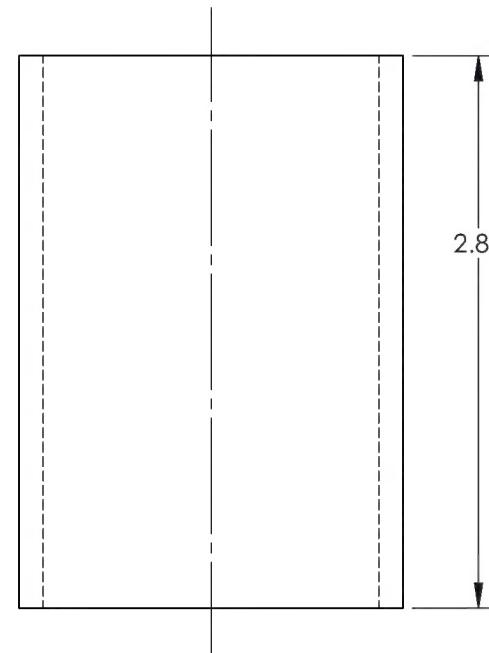
REV	REVISIONS	DESCRIPTION	DATE	INITIAL APPROVED
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(-9)

ADAPTER FLANGE

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-9
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1 SPEC	
HEAT TREAT FINISH USED ON MODEL	
1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R FIRE SCOUT MQ-8B	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:2
DATE	2/4/2011
SHEET 7 OF 32	



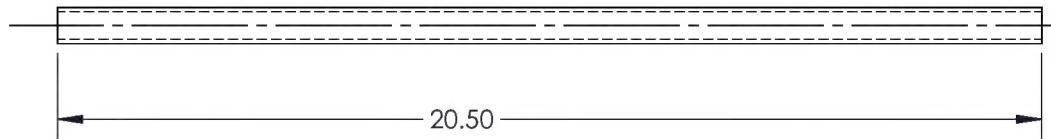
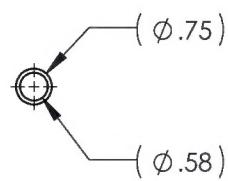
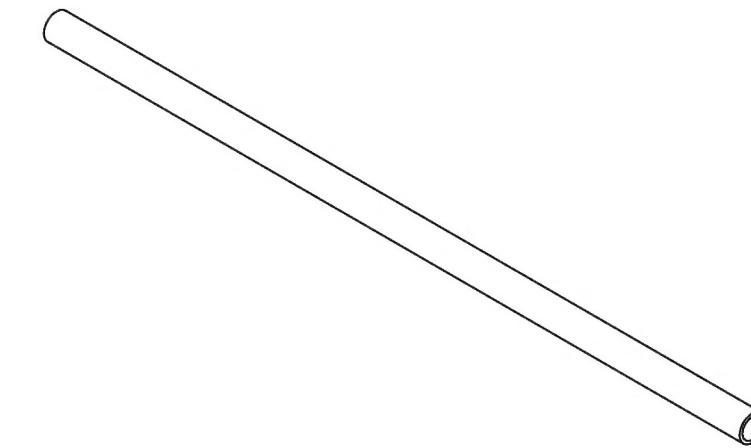
-11

SMALL DUCT TUBE

RED BARN MACHINE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-11
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED: <i>D Weil</i>
XX ± .01	HEAT TREAT
X ± .1	FINISH
SPEC	
USED ON MODEL	
1. BREAK ALL SHARP EDGES .015 x 45° PR-.015 R	FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 2/4/2011
SHEET 8 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
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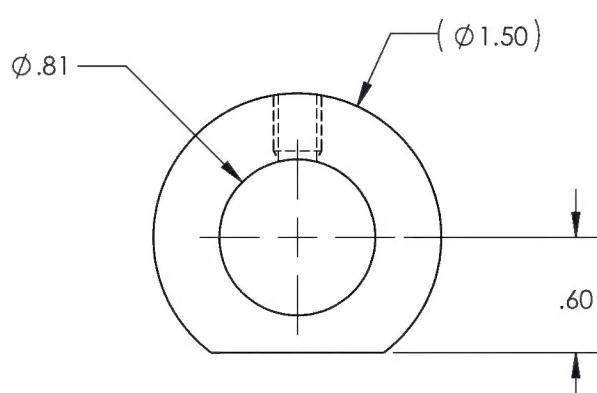
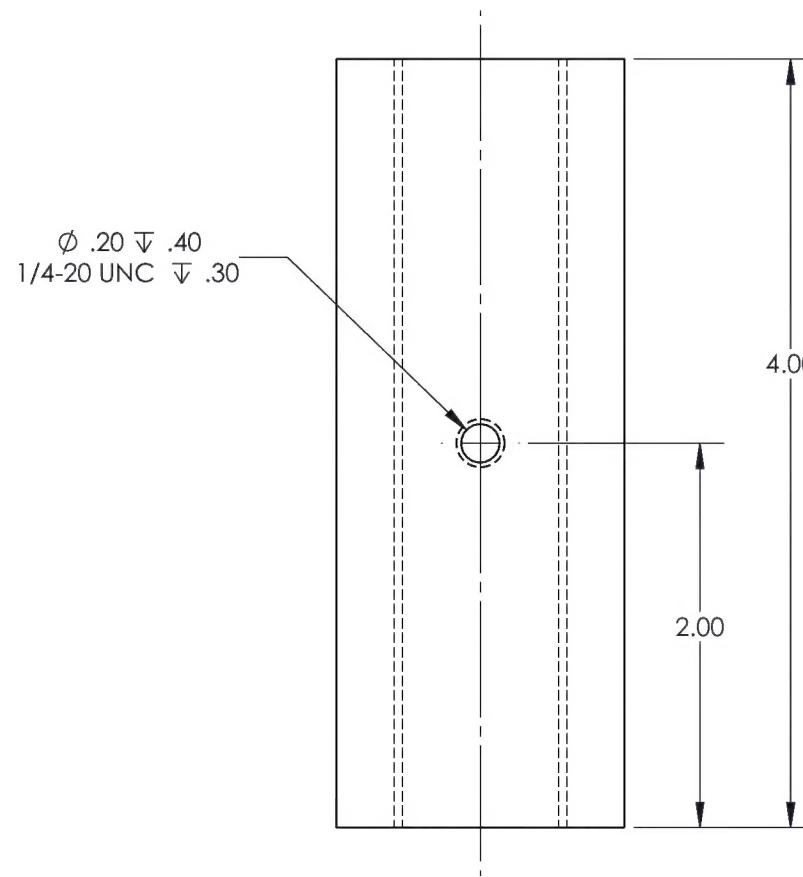
-13

AXLE TUBE

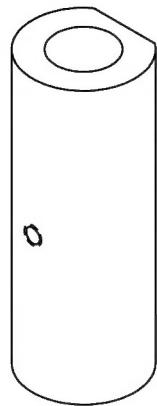
RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-13	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 2/4/2011
SHEET 9 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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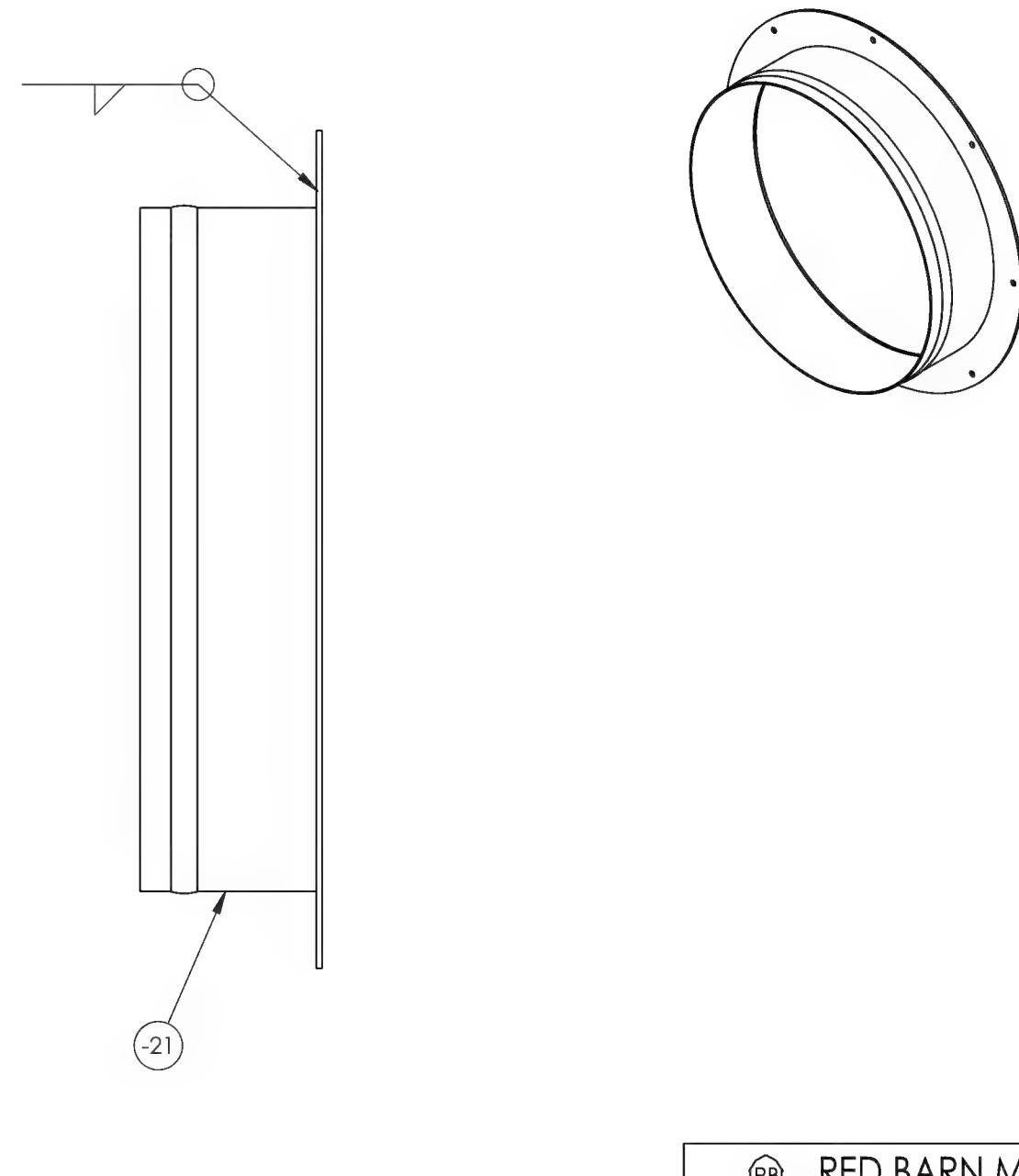
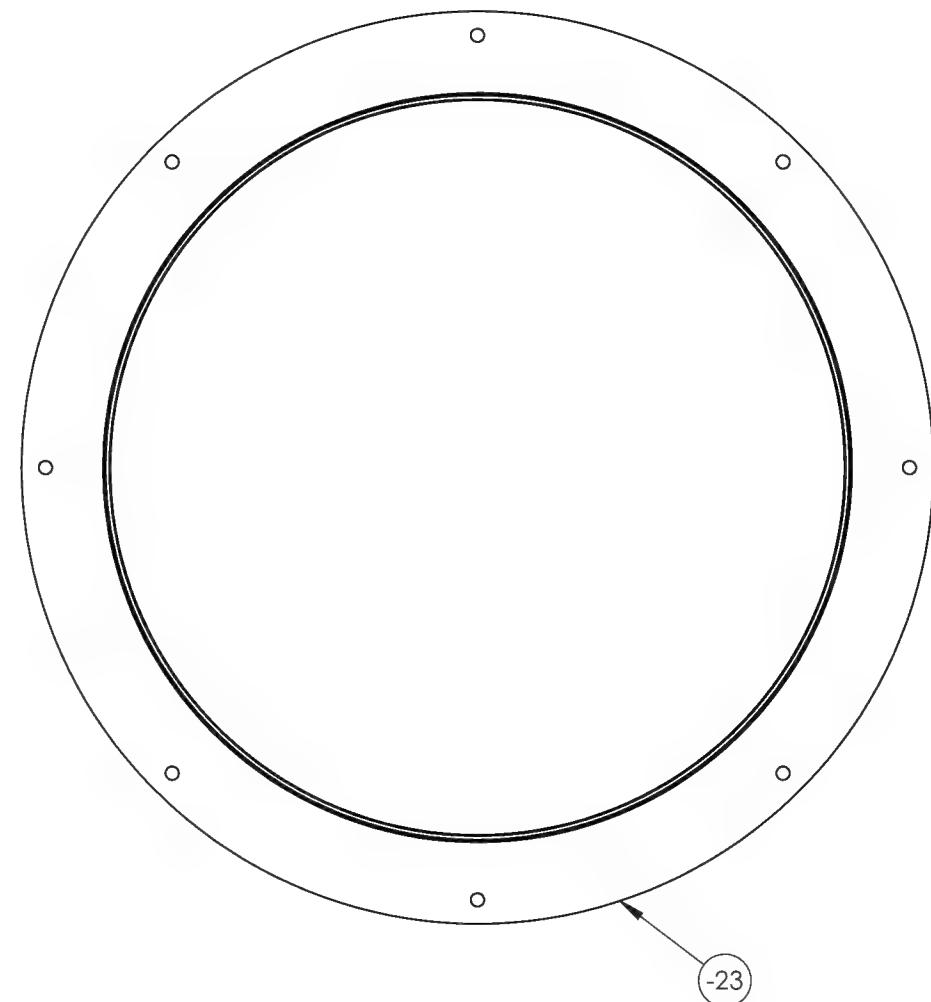
(-15)
HANDLE TUBE



RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-15
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:1
DATE	2/4/2011
SHEET 10 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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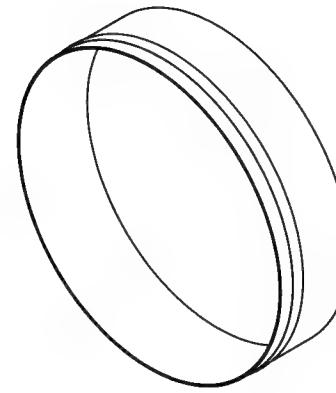
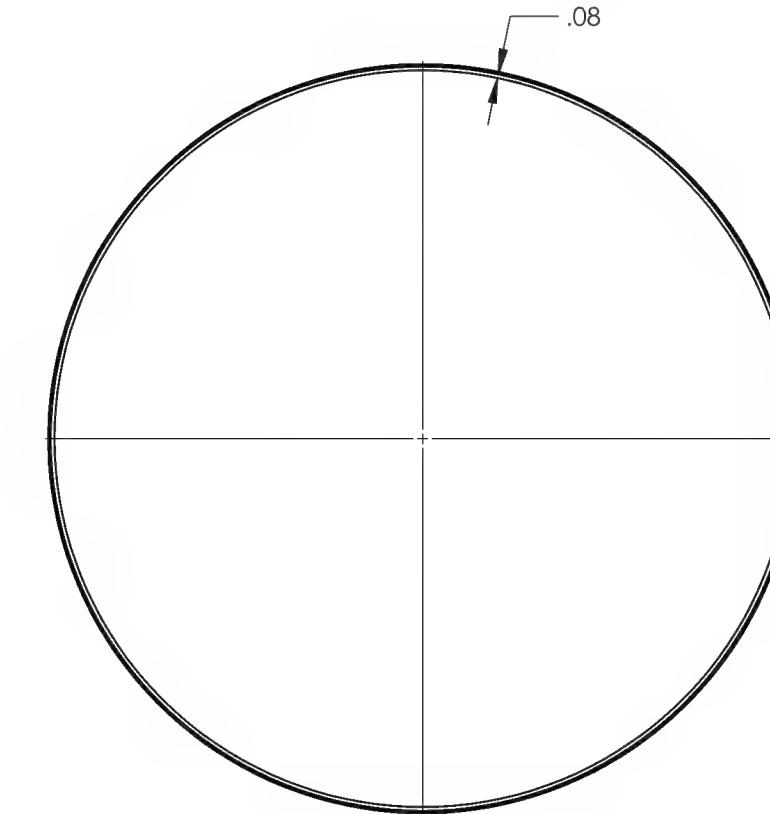
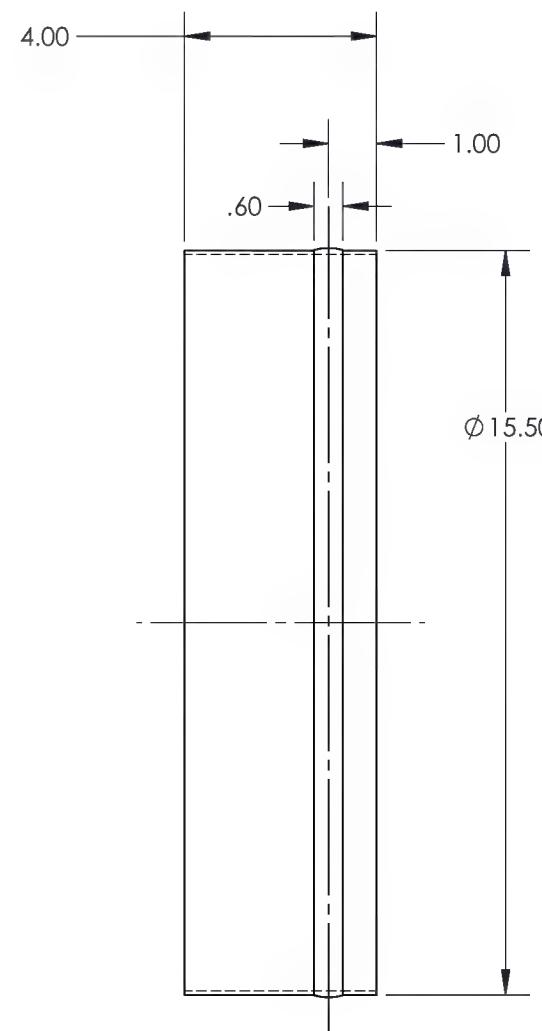


-19
SUPPLY DUCT WELDMENT

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-19
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH POWDER COAT SPEC SAFETY YELLOW USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:4
DATE	2/4/2011
SHEET 11 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		OD FROM 16.00 TO 15.50		2/18/2011	JAG	



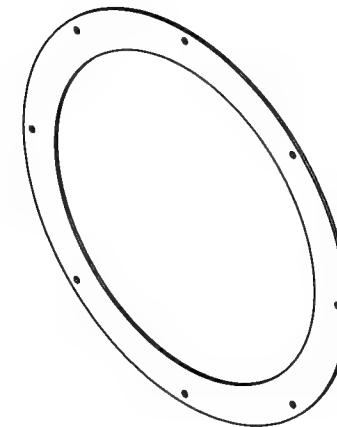
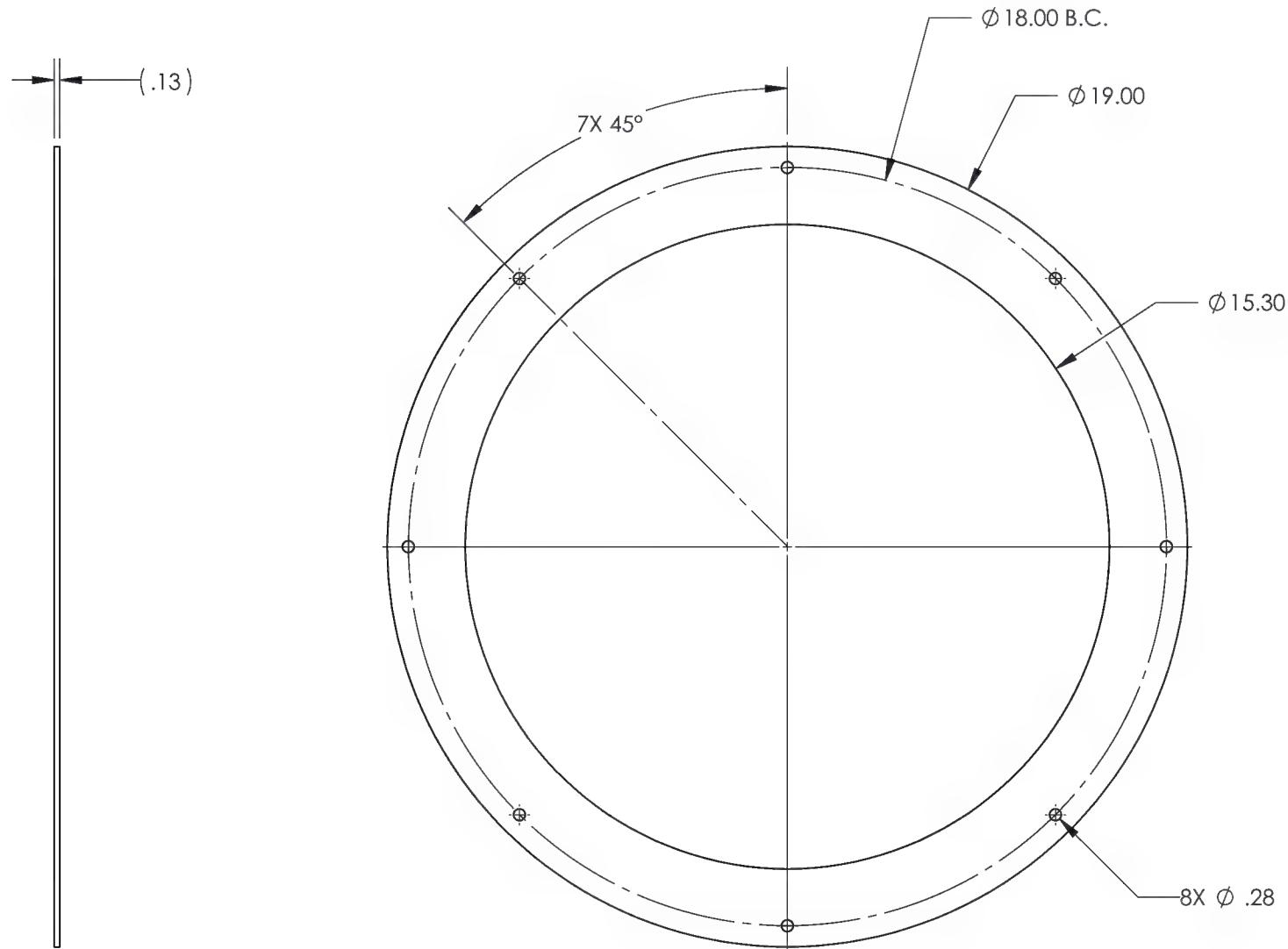
NOTE:
WELD SEAM 100%

(-21)
DUCT RING

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-21	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1 UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: GILBERT APPROVED D Weil HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 2/4/2011
SHEET 12 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		CHANGED FROM 10 HOLES @ Ø.22 TO 8 @ Ø.28, ID TO 15.30 FROM 15.84		2/18/2011	JAG	

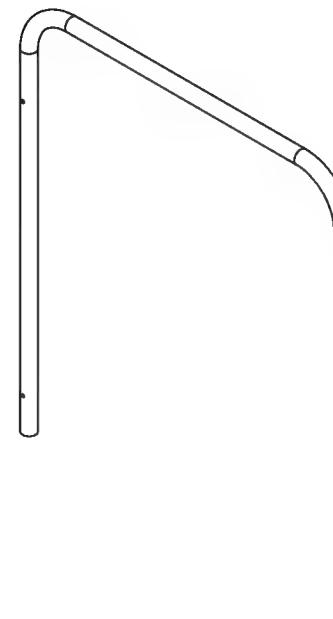
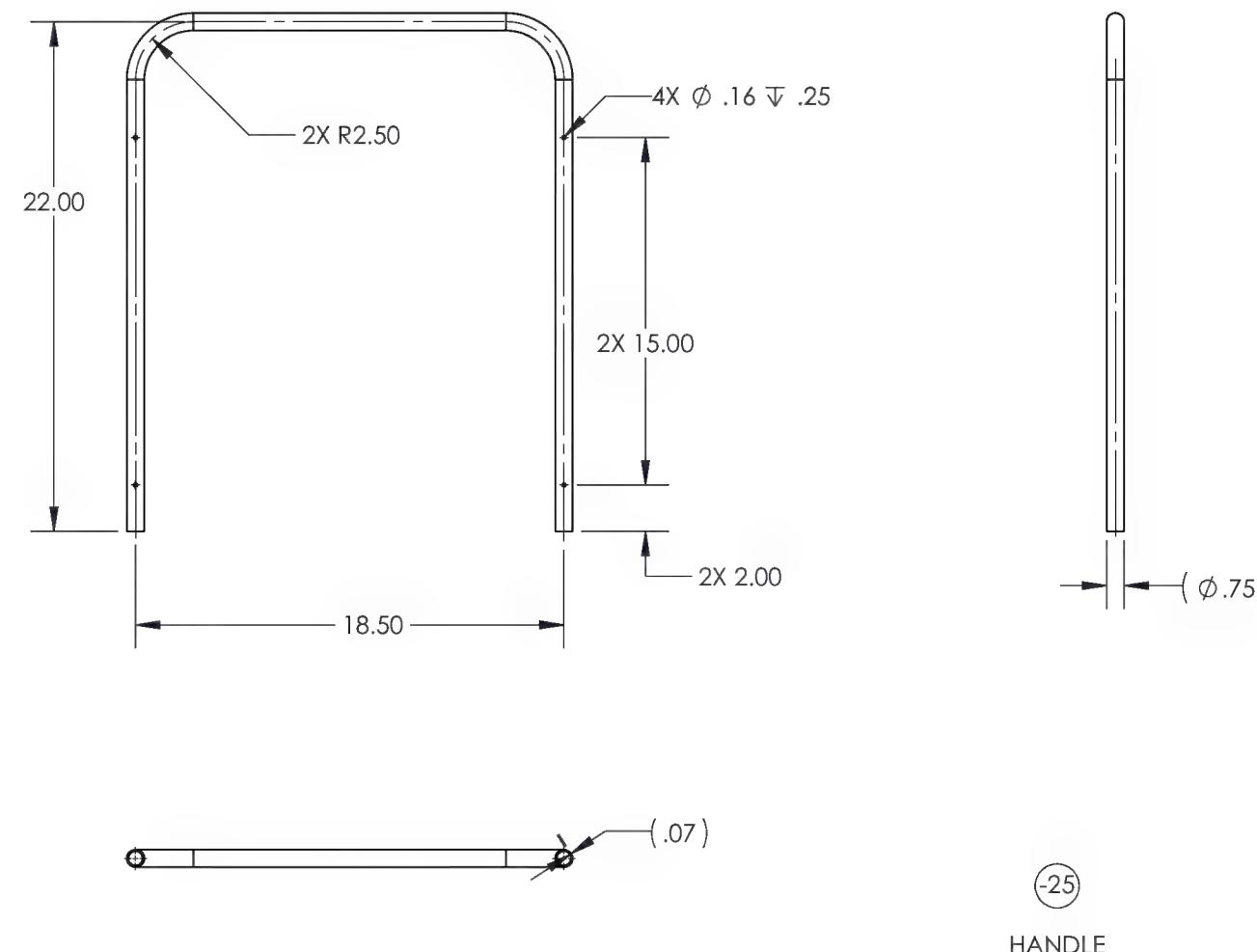


-23
DUCT FLANGE

RB RED BARN MACHINE	
TITLE COMPLETED AIR ADAPTER SET	
DWG NO.	RBT18400-23
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 2/4/2011
SHEET 13 OF 32	

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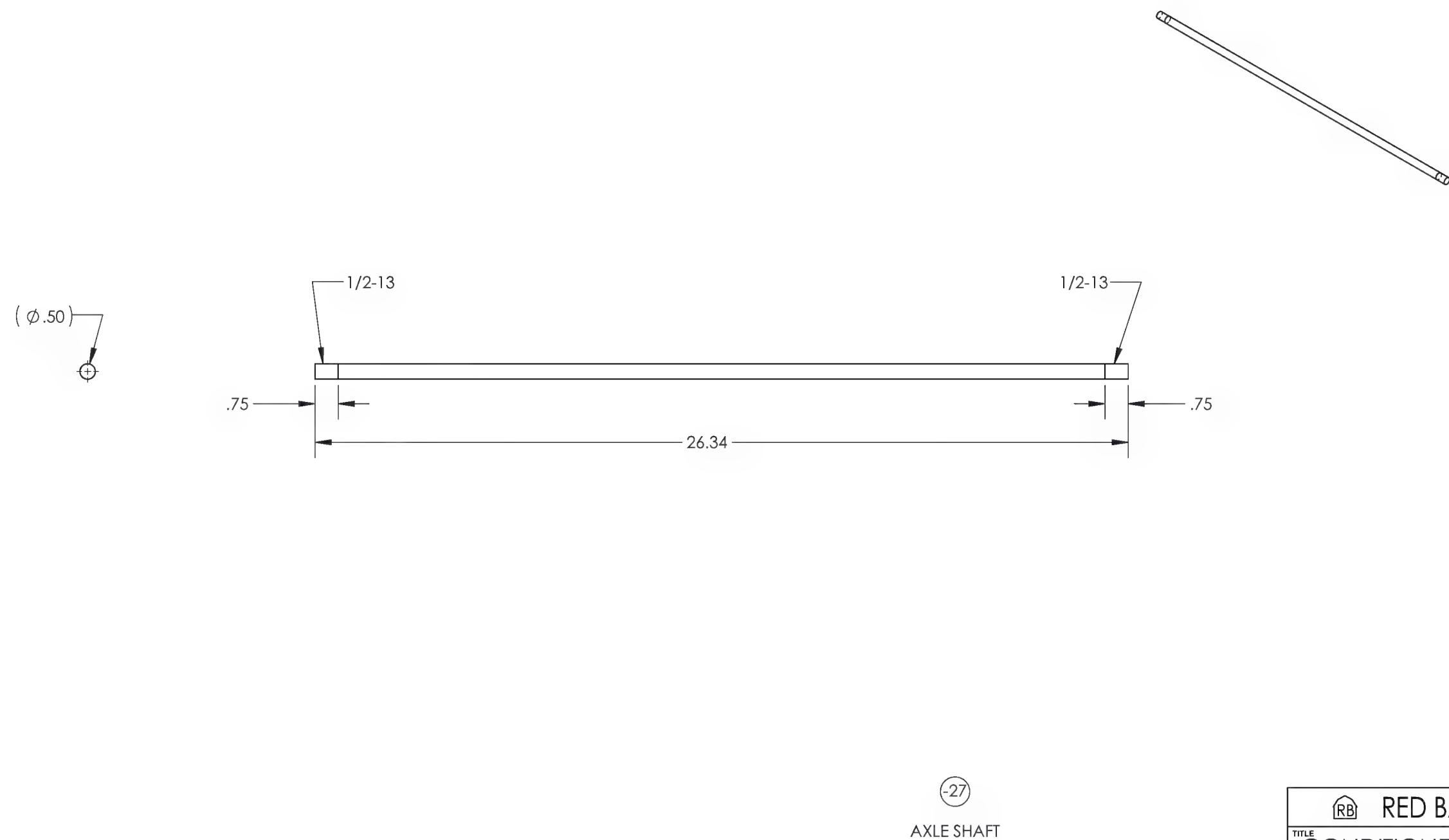
REV		DESCRIPTION		DATE	INITIAL APPROVED
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 RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-25	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:8	DATE 2/4/2011
SHEET 14 OF 32	

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REVISIONS					
REV	DESCRIPTION	DATE	INITIAL	APPROVED	

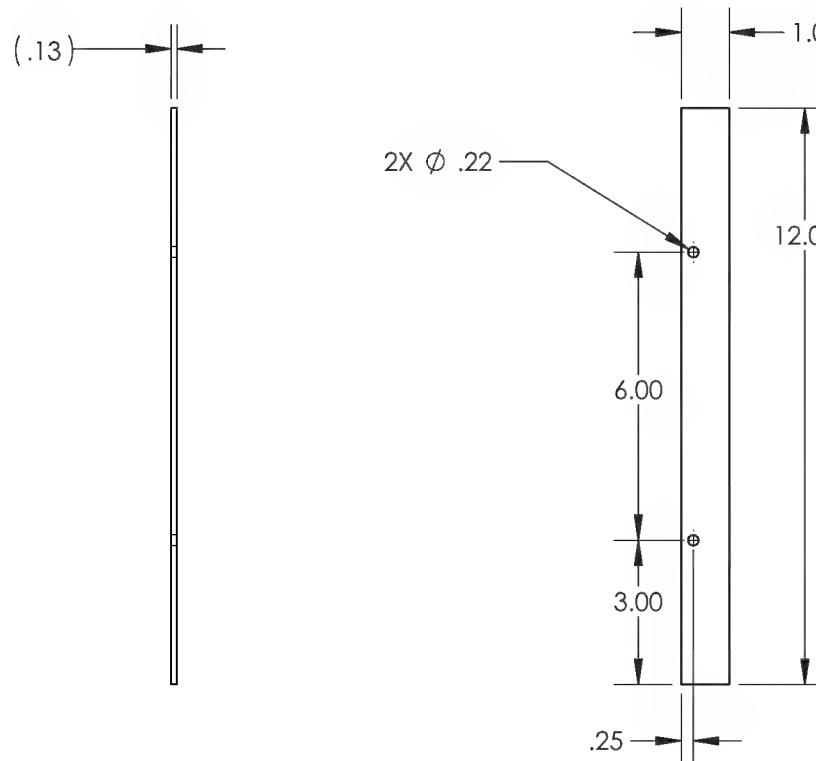


-27

	RED BARN MACHINE		
TITLE CONDITIONED AIR ADAPTER SET			
DWG NO.	RBT18400-27		REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: GILBERT APPROVED <i>D. Weil</i> HEAT TREAT FINISH SPEC	
TOLERANCES ON: DECIMALS $.XXX \pm .005$ FRACTIONS $\pm 1/32$ $.XX \pm .01$ ANGLES $\pm 5^\circ$ $X \pm .1$		USED ON MODEL FIRE SCOUT MQ-8B	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ PR. 015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
SCALE	1:4	DATE	2/4/2011
		SHEET 15 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
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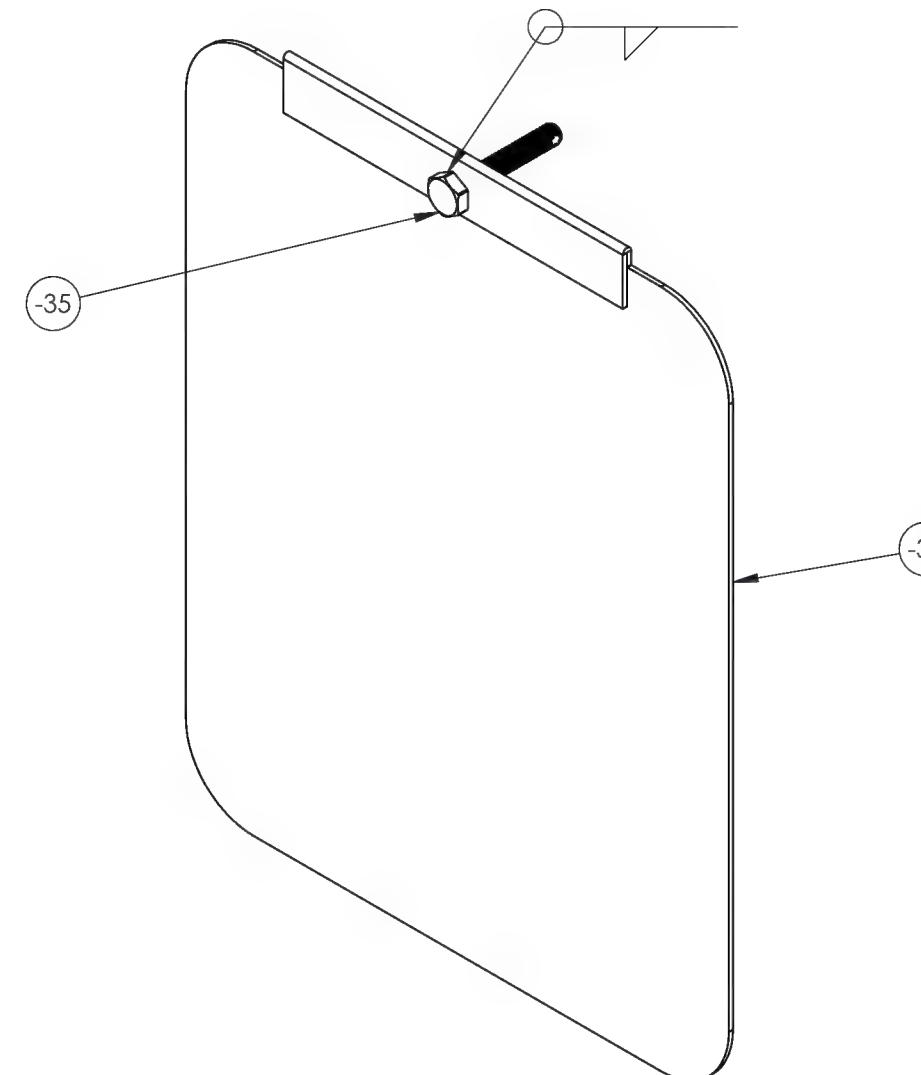
-29

SIDE GATE BRACKET

RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-29
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5°	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:4
DATE	2/4/2011
SHEET 16 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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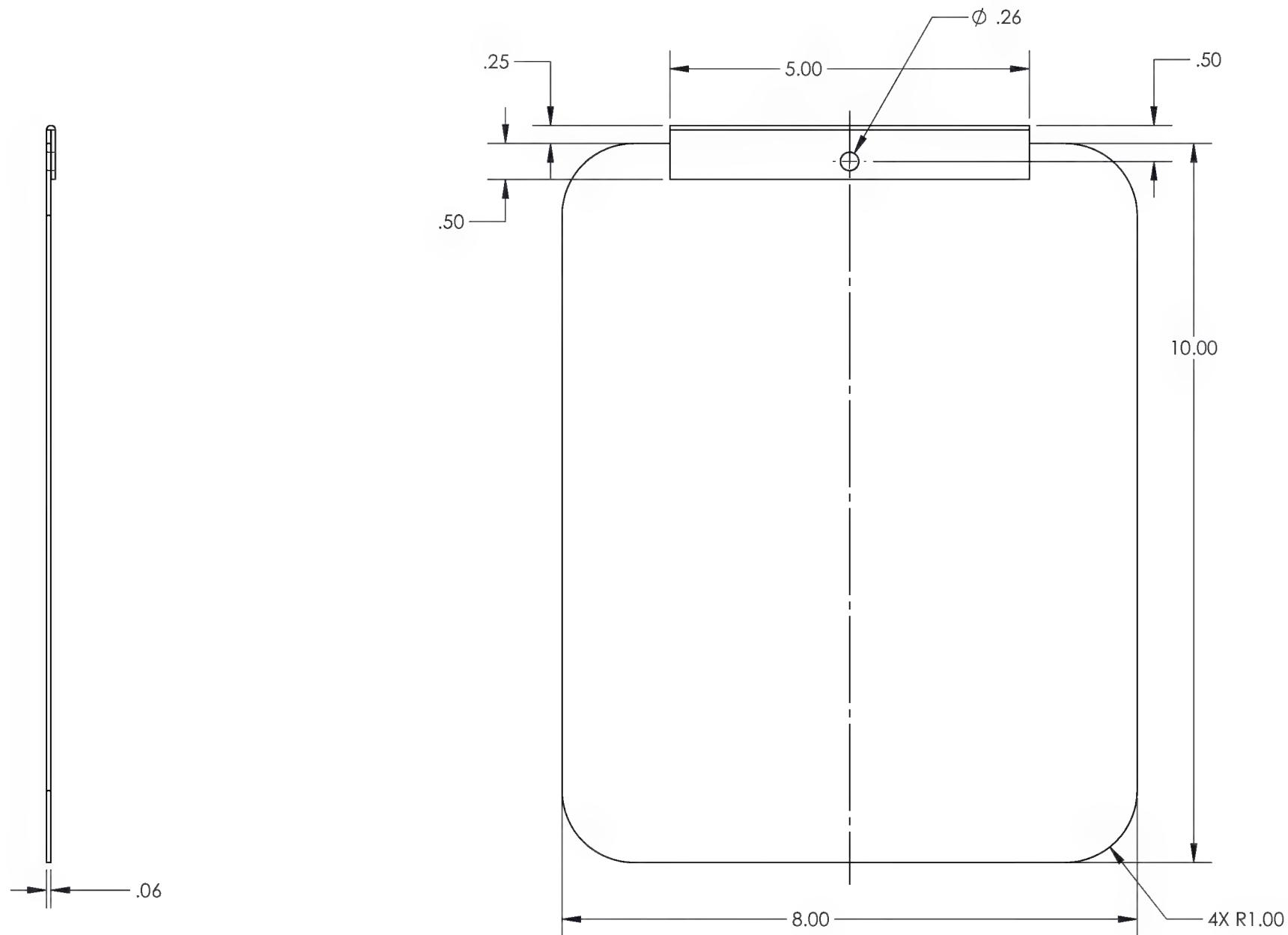


(-31)
SIDE GATE WELDMENT

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-31	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	
FRACTIONS ± 1/32 HEAT TREAT FINISH ANGLES ± .5° SPEC	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:2	DATE 2/4/2011
SHEET 17 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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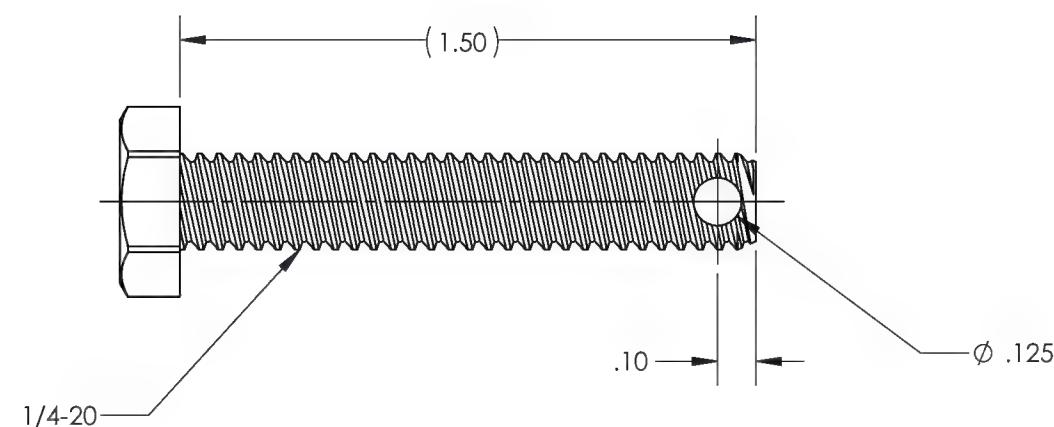
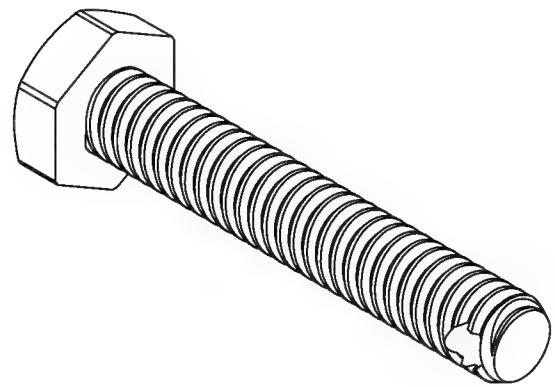
-33

SIDE GATE

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-33
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± .5°	
X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 18 OF 32	

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
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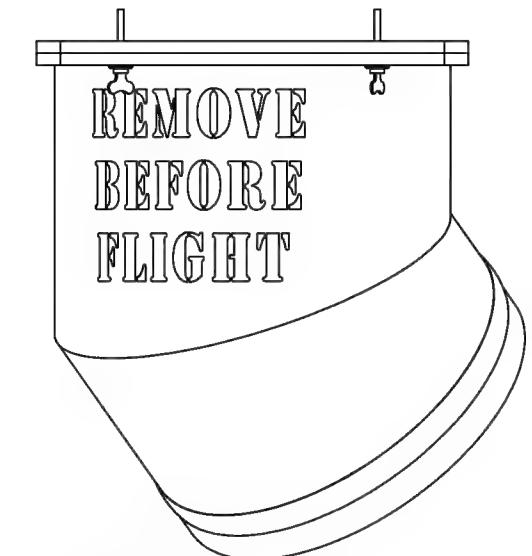
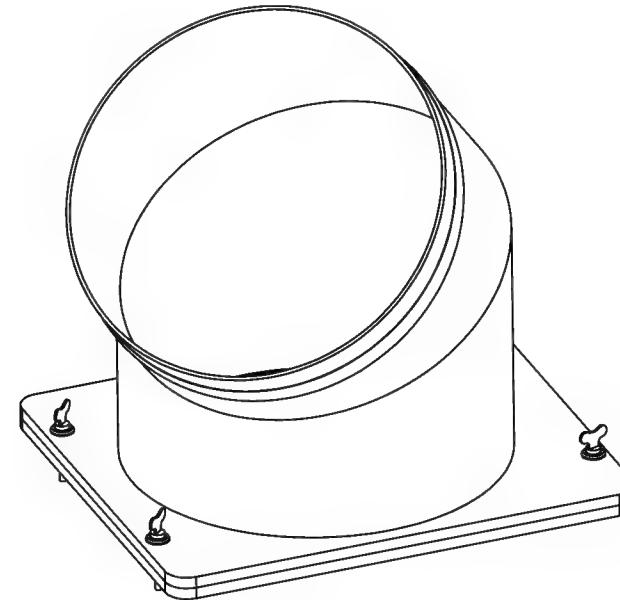
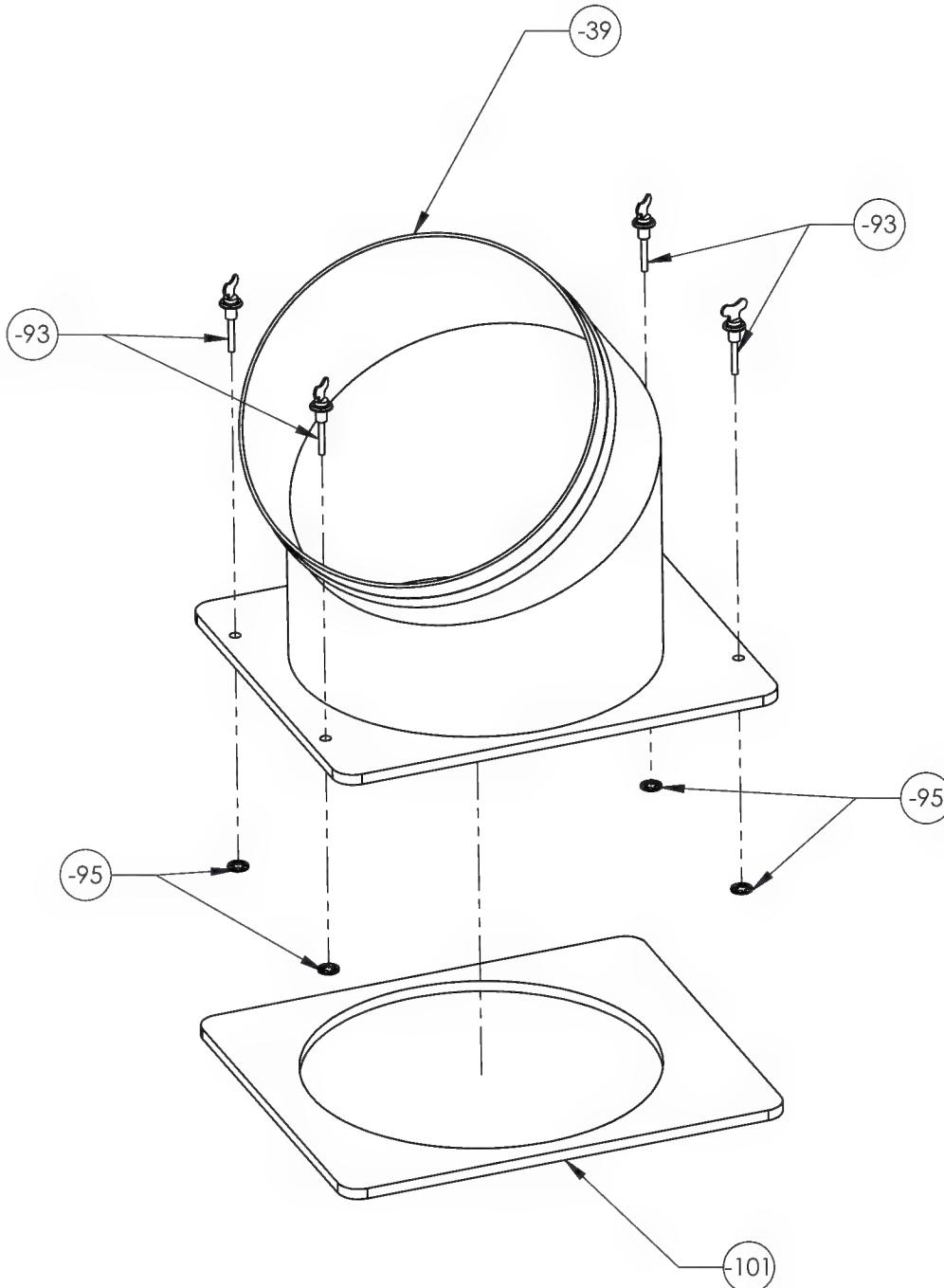
(-35)

LOCK STUD

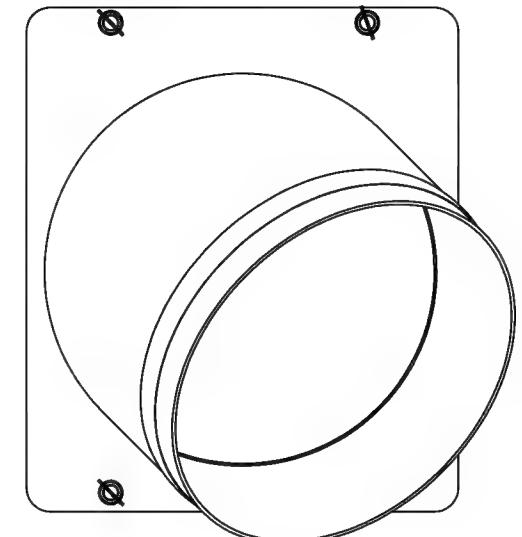
RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-35	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 2:1	DATE 2/4/2011
SHEET 19 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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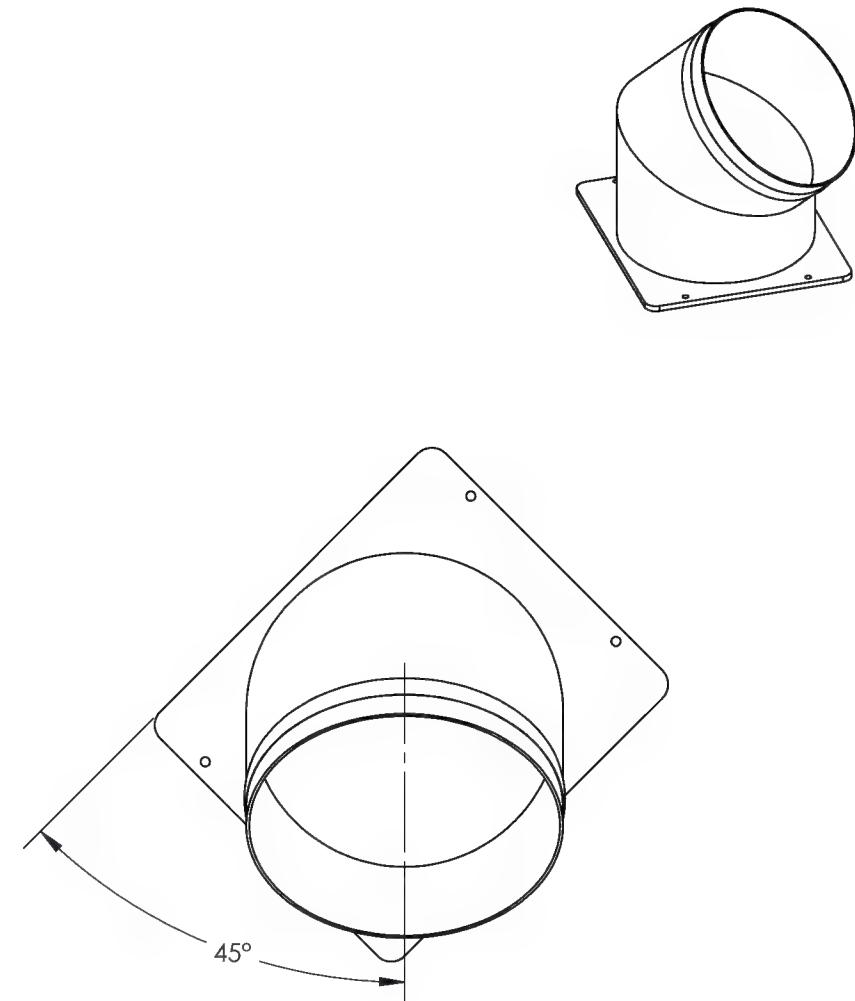
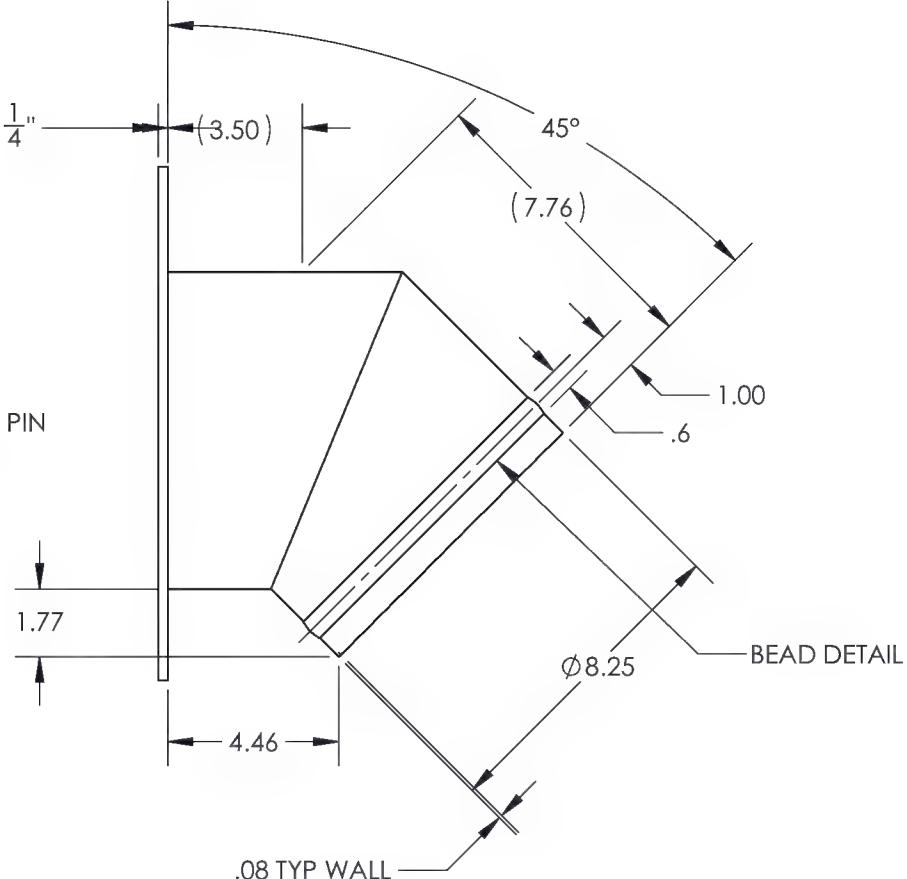
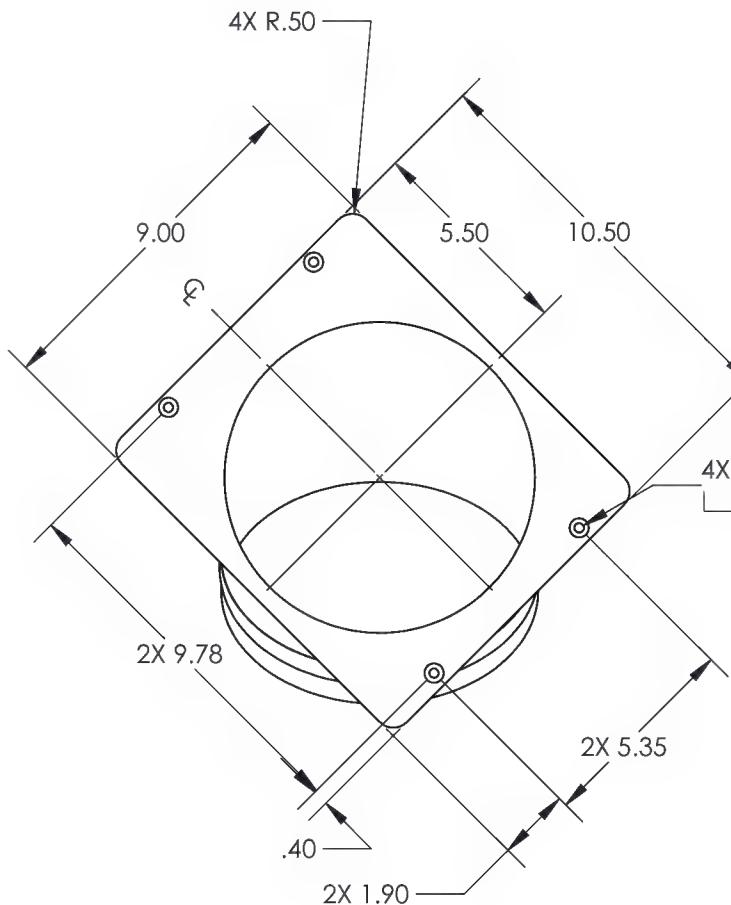


APPLY STENCIL AS SHOWN IN WHITE



-37
AVIONICS DUCT ASSY

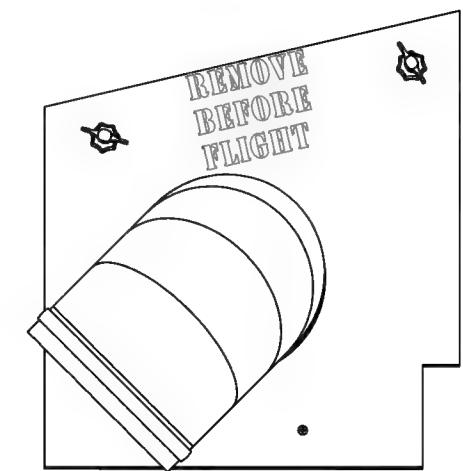
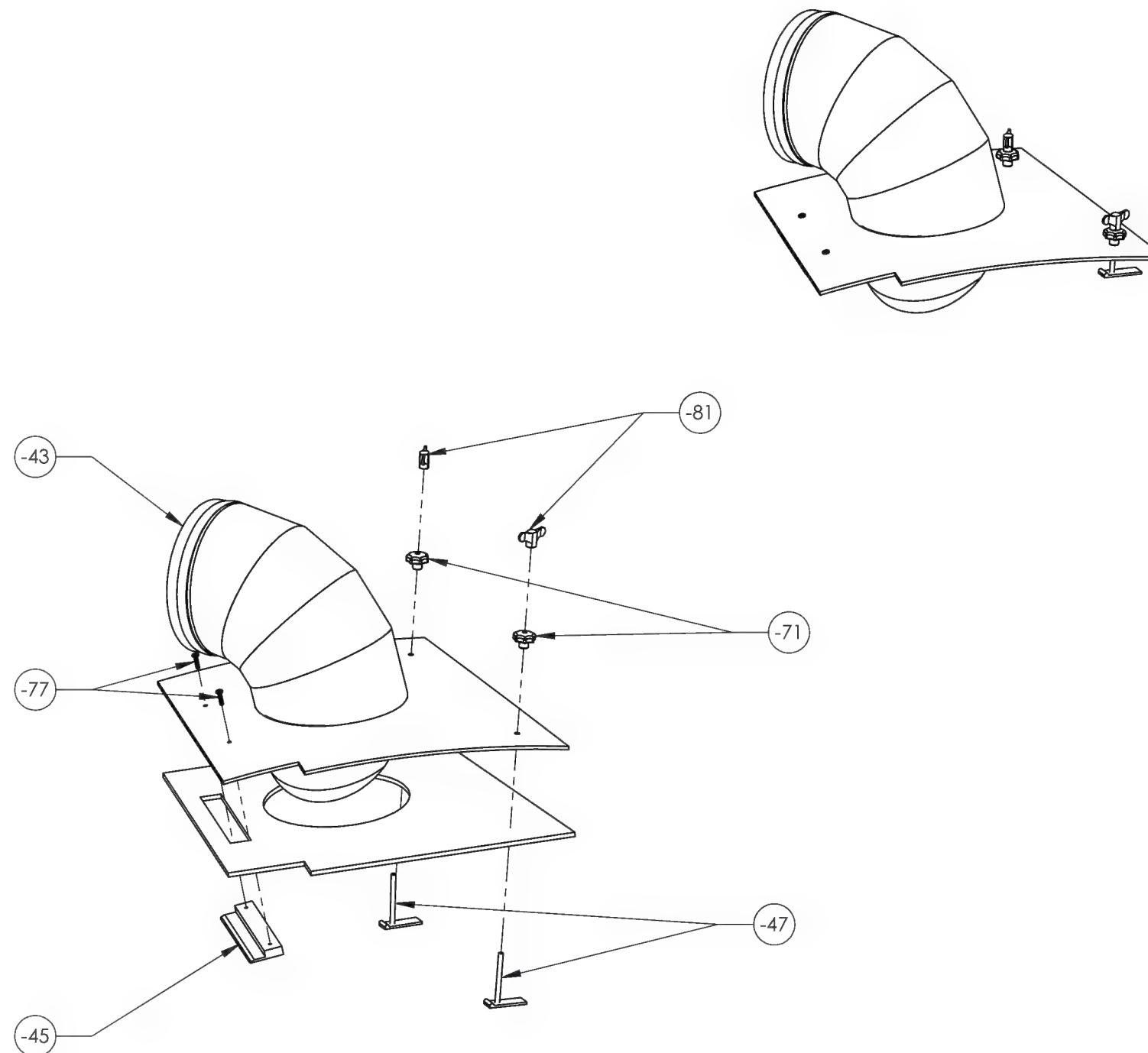
RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-37
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED <i>D Weil</i>
FRACTIONS ± 1/32 ANGLES ± .5°	HEAT TREAT FINISH
SPEC	USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 2/4/2011
SHEET 20 OF 32	



(-39)
AVIONICS DUCT

NOTES:
HOLES TO BE DRILLED IN FLANGE
BEFORE BEING JOINED WITH ELBOW

RB RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-39
REVISION	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED: <i>D. Weil</i>
.XX ± .01	HEAT TREAT
.X ± .1	FINISH POWDER COAT RED
1. BREAK ALL SHARP EDGES	SPEC RAL 3020
.015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:5	DATE 2/4/2011
	SHEET 21 OF 32



APPLY STENCIL AS SHOWN IN WHITE

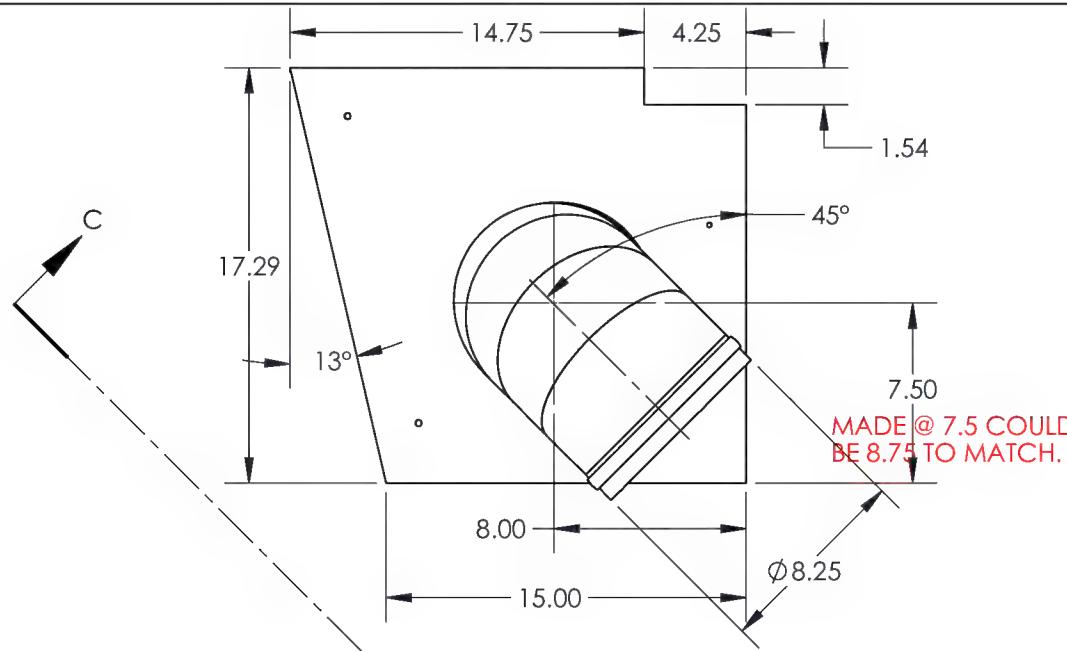
-41
ENGINE DUCT ASSY

NOTE:
USE LOCTITE ON FASTENERS -77 AND KNOBS -81.

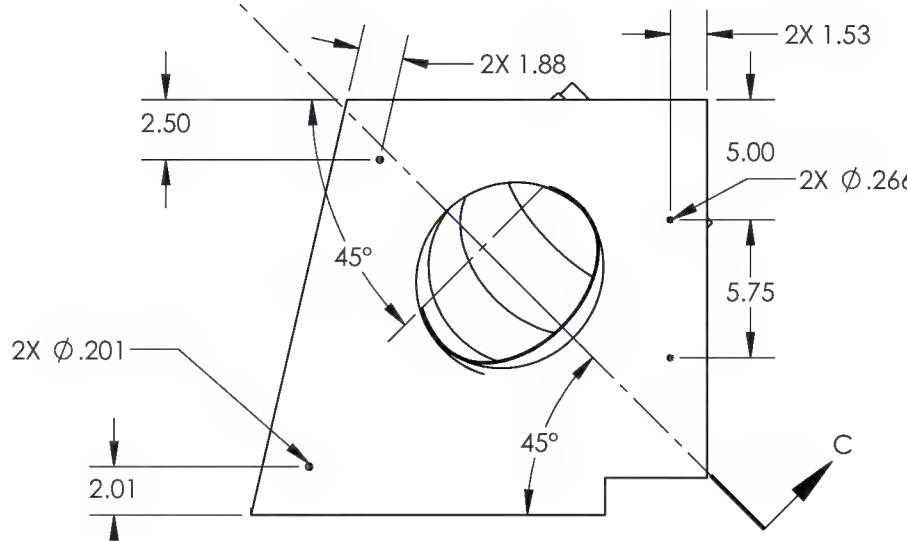
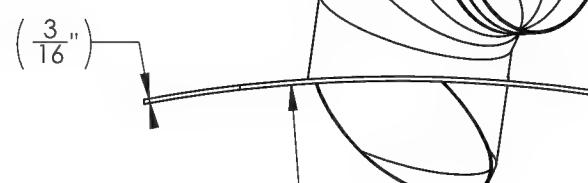
RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-41
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:8
DATE	2/4/2011
SHEET 22 OF 32	

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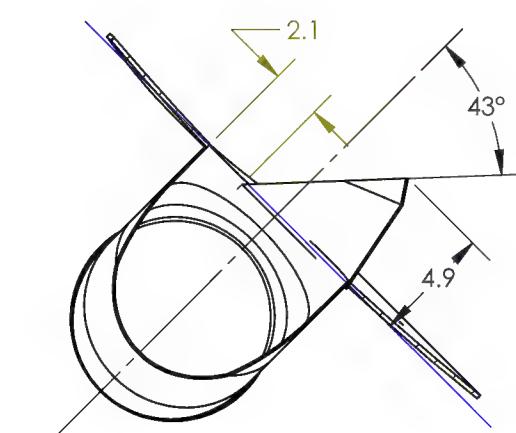
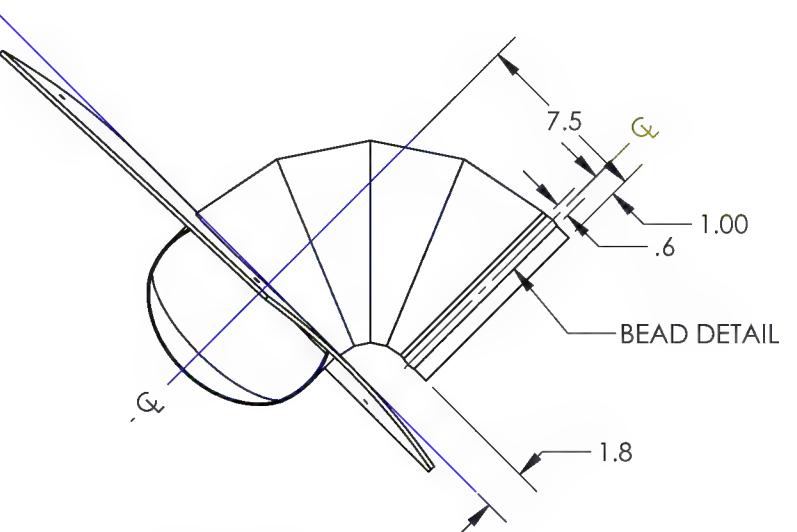
REV		DESCRIPTION		DATE	INITIAL APPROVED
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.08 TYP WALL



AUXILIARY C-C



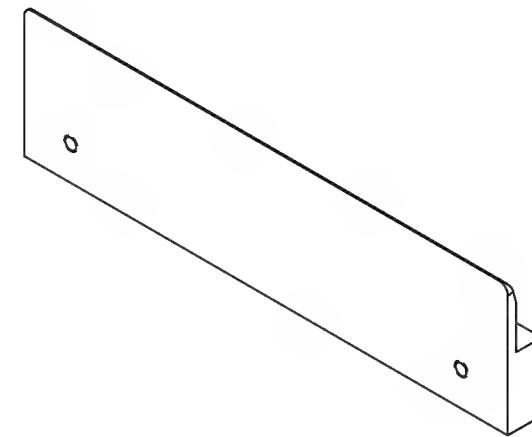
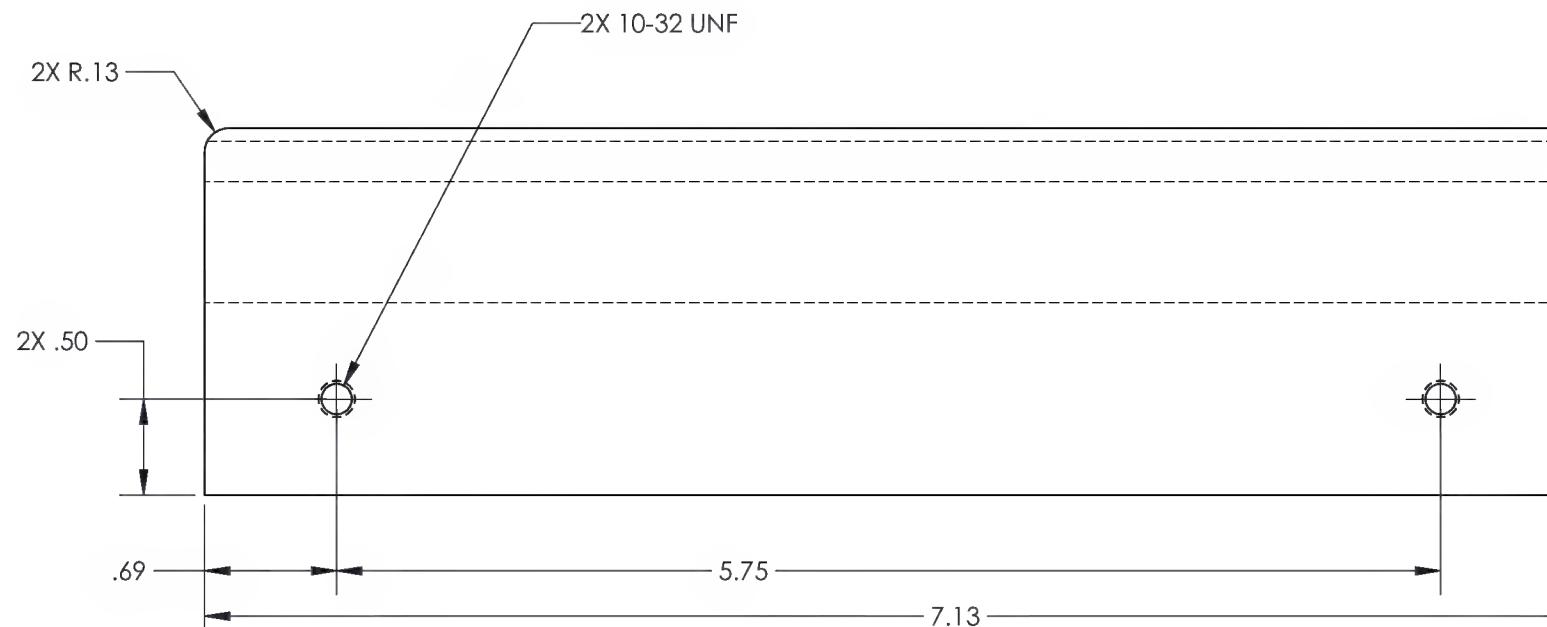
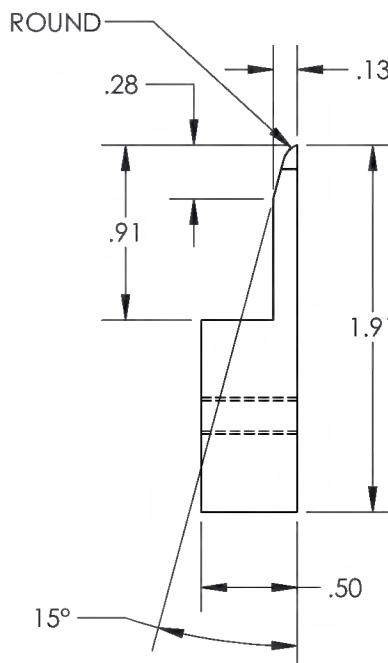
-43
ENGINE DUCT

SECTION C-C

RB RED BARN MACHINE	
TITLE CONDITION AIR ADAPTOR SET	
DWG NO.	REV 1
RBT18400-43	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED D Weil
FRACTIONS ± 1/32	HEAT TREAT
ANGLES ± .5°	FINISH POWDER COAT RED
SPEC RAL 3020	USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 2/4/2011
	SHEET 23 OF 32

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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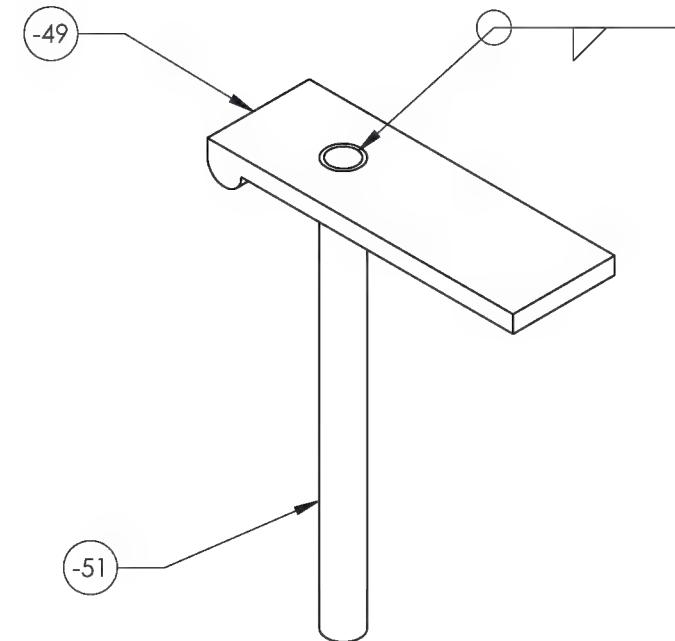


-45
RETAINER

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-45
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED D Weil
FRACTIONS ± 1/32 ANGLES ± .5°	HEAT TREAT FINISH
SPEC	USED ON MODEL
1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 2/4/2011
	SHEET 24 OF 32

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
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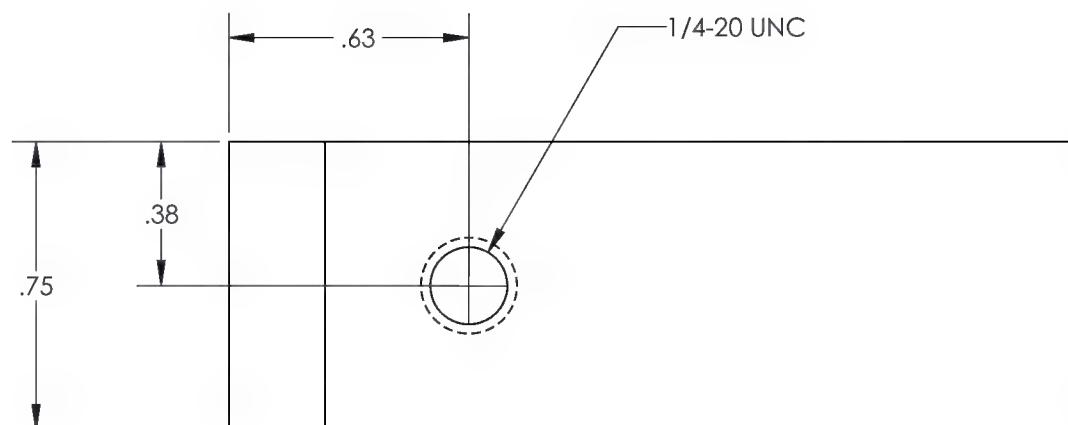
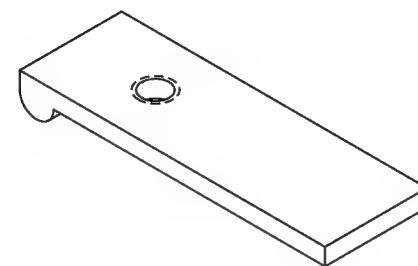
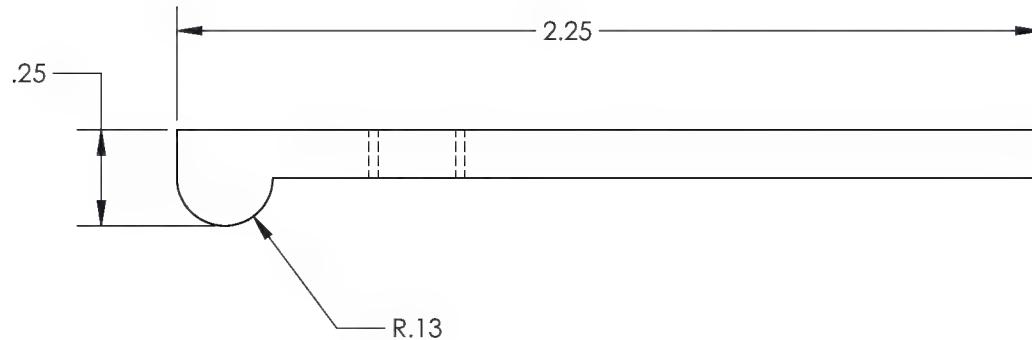


(-47)
LATCH WELDMENT

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-47
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED D Weil
XX ± .01	HEAT TREAT
X ± .1	FINISH
	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:1	DATE 2/4/2011
	SHEET 25 OF 32

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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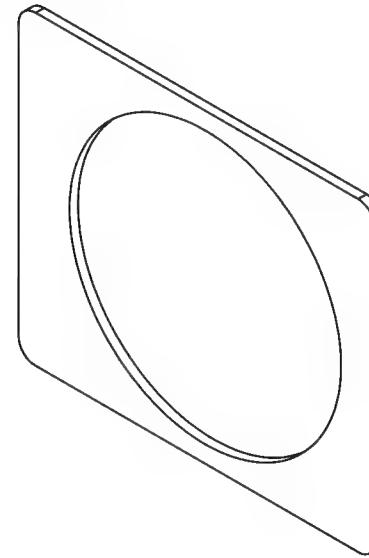
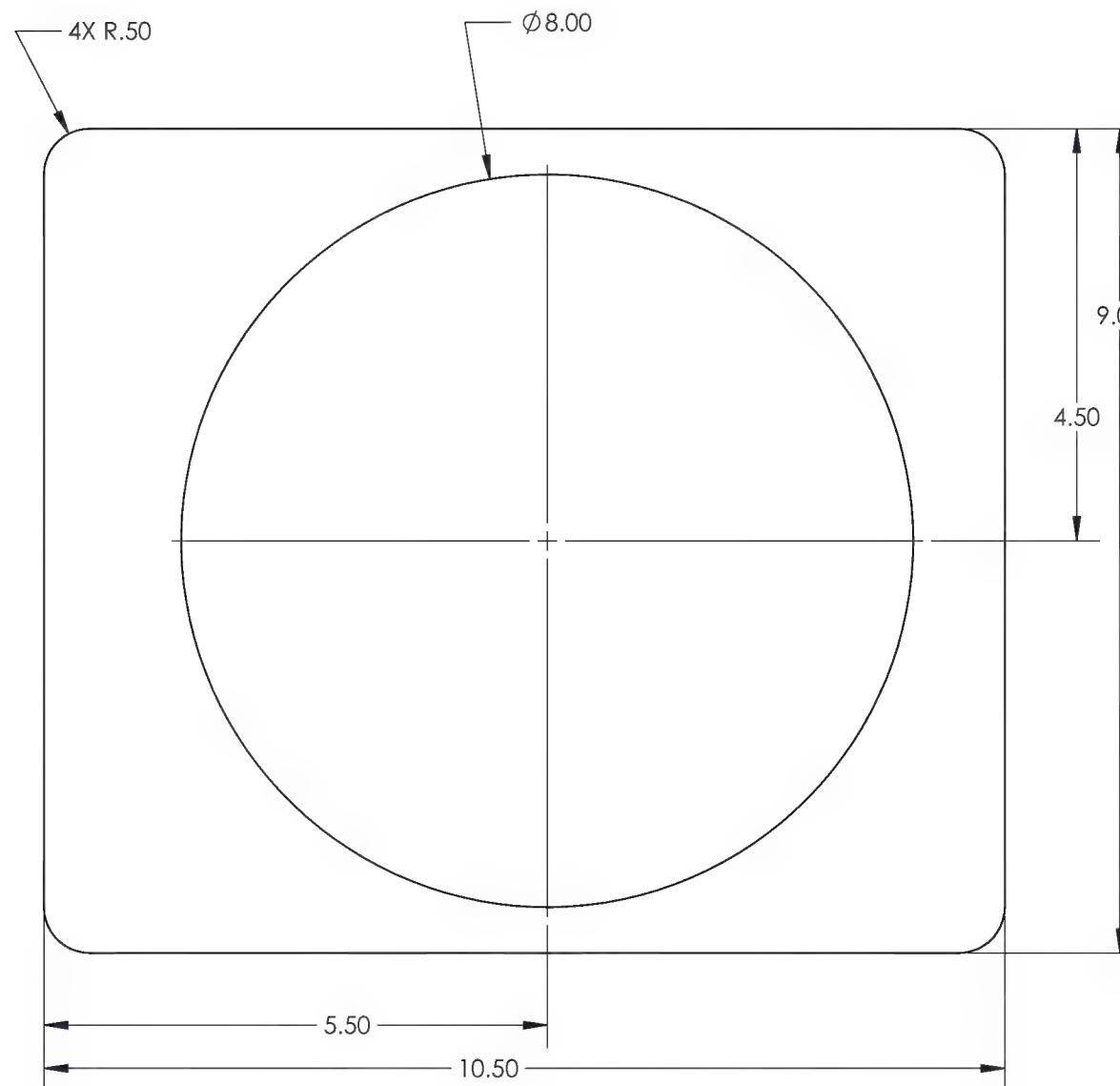
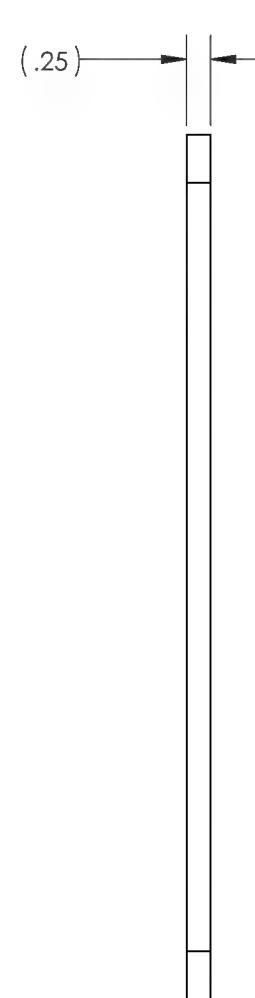
(-49)

LATCH PLATE

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-49
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	2:1
DATE	2/4/2011
SHEET 26 OF 32	

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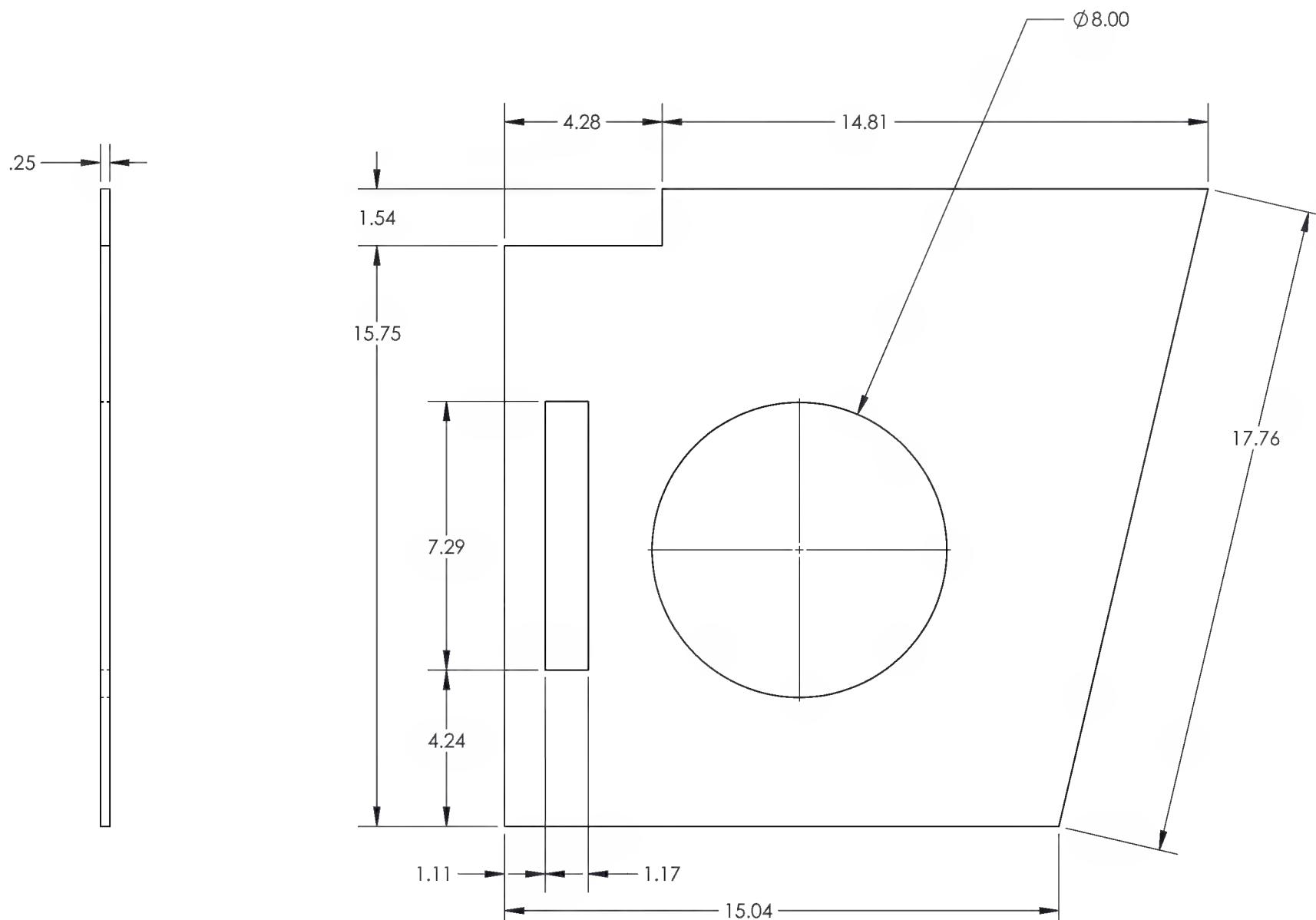
REV	REVISIONS	DESCRIPTION	DATE	INITIAL APPROVED
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-101

AVIONICS DUCT FOAM

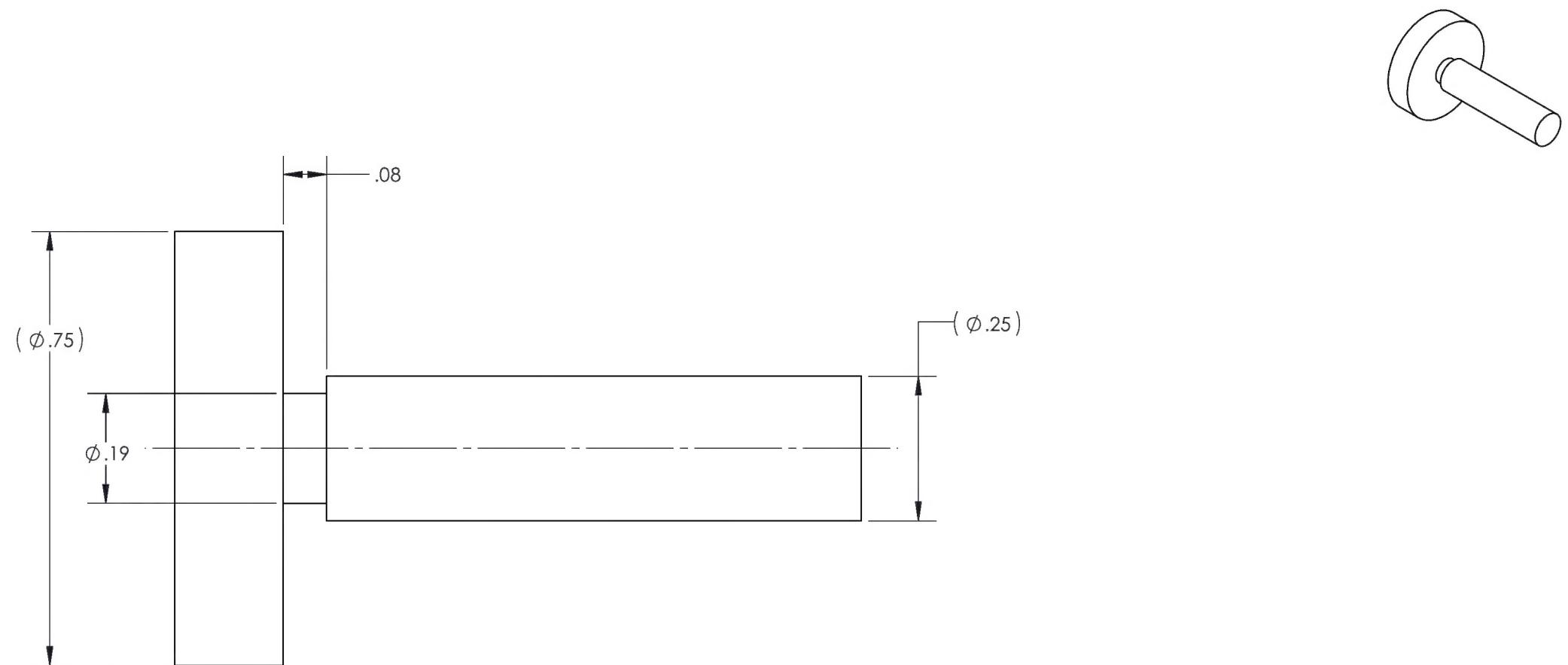
RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-101	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE 1:2	DATE 2/4/2011
SHEET 27 OF 32	



-103

ENGINE DUCT FOAM

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-103
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED <i>D. Weil</i>
FRACTIONS ± 1/32 HEAT TREAT FINISH	HEAT TREAT FINISH
ANGLES ± .5°	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:4	DATE 2/4/2011
	SHEET 28 OF 32



-105

THUMB SCREW

RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-105
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	
XXX	$\pm .005$
XX	$\pm .01$
X	$\pm .1$
FRACTIONS $\pm 1/32$	
ANGLES $\pm .5^\circ$	
HEAT TREAT	
FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	4:1
DATE	2/4/2011
SHEET 29 OF 32	

1.00 TEXT HEIGHT

REMOVE
BEFORE
FLIGHT

.50 TYP.

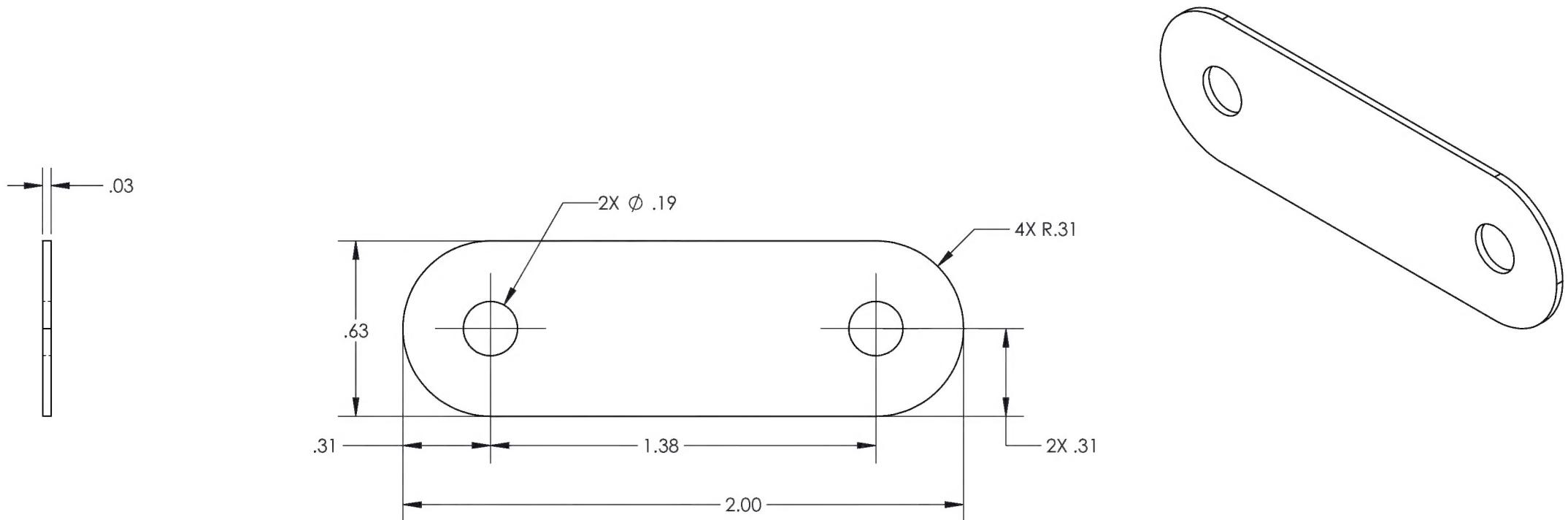
-111

STENCIL

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-111
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED D Weil
XX ± .01	HEAT TREAT
X ± .1	FINISH
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE 1:1	DATE 2/4/2011
SHEET 30 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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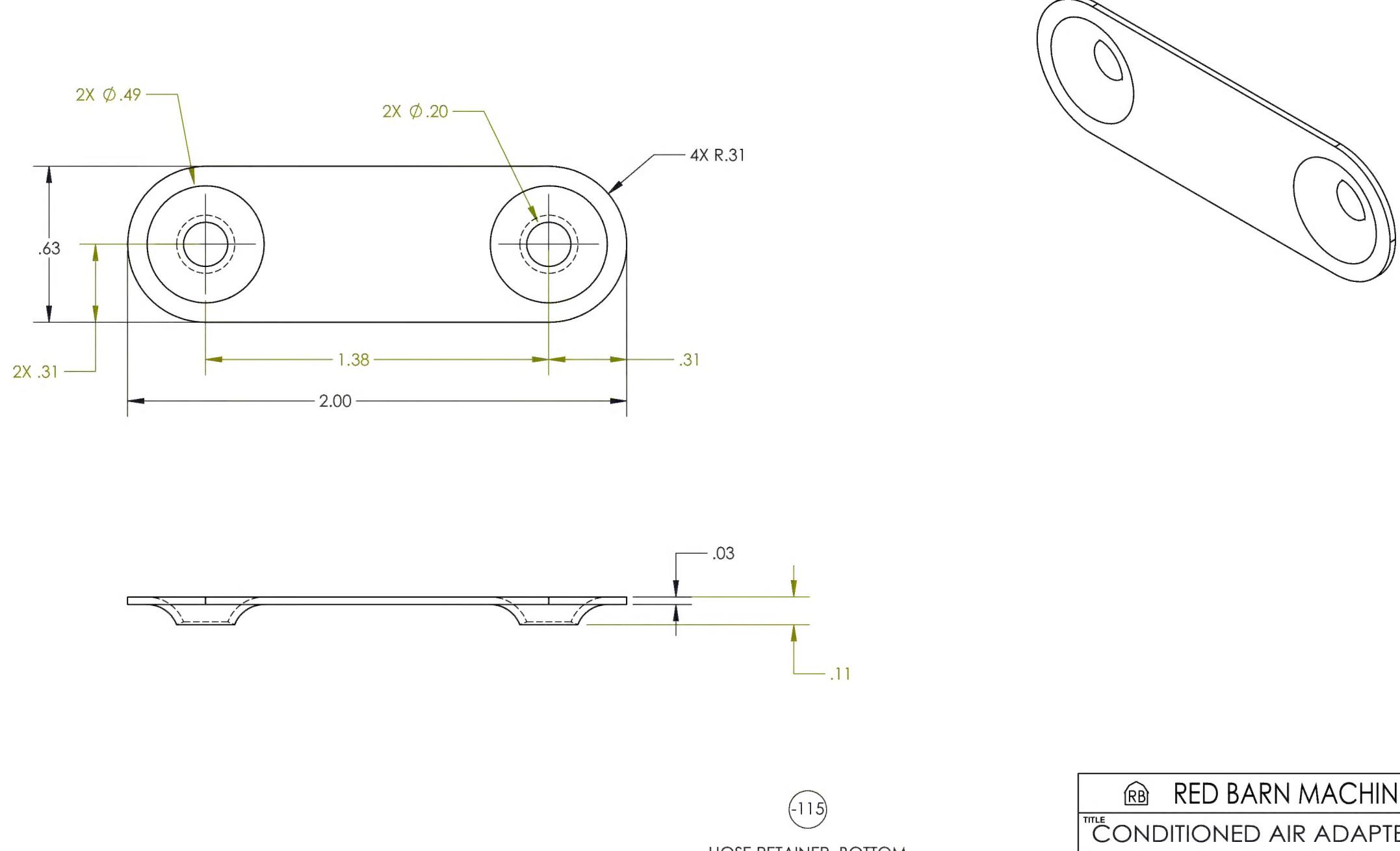
-113

HOSE RETAINER

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-113	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil HEAT TREAT FINISH SPEC USED ON MODEL .015 x 45° PR-.015 R FIRE SCOUT MQ-8B 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 2/4/2011
SHEET 31 OF 32	

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REV		DESCRIPTION		DATE	INITIAL APPROVED
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(RB) RED BARN MACHINE

TITLE
CONDITIONED AIR ADAPTER SET

DWG NO. RBT18400-115 REV 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS $XXX \pm .005$ $XX \pm .01$ $X \pm .1$	DRAWN BY: GILBERT APPROVED D Weil HEAT TREAT FINISH SPEC USED ON MODEL .015 x 45° PR-.015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING FIRE SCOUT MQ-8B
	SCALE 1:1 DATE 2/4/2011 SHEET 32 OF 32